State of New Mexico

Incident ID nAPP2227129446

Incident ID	nAPP2227129446
District RP	
Facility ID	
Application ID	

### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
NA A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of a	nations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.  Title: Environmental Professional
email: jim.raley@dvn.com	Telephone: 575-689-7597
OCD Only	
Received by:	Date:11/09/2022
Closure approval by the OCD does not relieve the responsible party	of liability should their operations have failed to adequately investigate and
	water, human health, or the environment nor does not relieve the responsible
remediate contamination that poses a threat to groundwater, surface v	water, human health, or the environment nor does not relieve the responsible or regulations.



November 9, 2022 Vertex Project #: 22E-03360

Spill Closure Report: North Brushy Draw Federal #012H

Section 35, Township 25 South, Range 29 East

API: 30-015-43603 County: Eddy

Incident Report: nAPP2227129446

Prepared For: WPX Energy Permian, LLC

5315 Buena Vista Drive

Carlsbad, New Mexico 88220

New Mexico Oil Conservation Division - District 2 - Artesia

811 South 1<sup>st</sup> Street

Artesia, New Mexico 88210

WPX Energy Permian, LLC (WPX) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment for a release of produced water caused by a pinhole that developed in the water dump line at North Brushy Draw Federal #012H, API 30-015-43603, Incident nAPP2227129446 (hereafter referred to as "North Brushy"). WPX provided spill notification to the New Mexico Oil Conservation District (NMOCD) District 2, via submission of an initial C-141 Release Notification (Attachment 1). This letter provides a description of the Spill Assessment and includes a request for Spill Closure. The spill area is located at N 32.0797257, W -103.9514552.

#### **Background**

The site is located approximately 12.22 miles southeast of Malaga, New Mexico (Google Inc., 2022). The legal location for the site is Section 35, Township 25 South and Range 29 East in Eddy County, New Mexico. The spill area is located on Bureau of Land Management (BLM) property.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2022) indicates the site's surface geology is comprised primarily of Qoa - Older alluvial deposits of upland plains and piedmont areas and is characterized as calcic soils and eolian cover sediments of High Plains region (middle to lower Pleistocene). The Natural Resources Conservation Service Web Soil Survey characterizes the predominant soil texture on the site is Reagan-Upton association. It tends to be well drained with low runoff and moderate available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2022).

The surrounding landscape is associated with fan remnants and alluvial fans at elevations of 1,100 to 5,400 feet above sea level. The climate is semi-arid, with an annual precipitation ranging between 6 to 14 inches. Historically, the plant community had a grassland aspect, dominated by grasses with shrubs and half shrubs. Black grama, tobosa, and blue grama is dominant with a mixture of creosotebush, tarbush, and mesquite. Overgrazing and extended drought can reduce grass cover.

vertex.ca

**2022 Spill Assessment and Closure**November 2022

There is no surface water located at North Brushy. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 New Mexico Administrative Code (NMAC; New Mexico Oil Conservation Division, 2018), is the Pecos River located approximately 3.14 miles southwest of the site (Google Inc., 2022; United States Fish and Wildlife Service, 2022). 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 19.15.29.12 NMAC.

### **Incident Description**

The spill occurred on September 23, 2022, due to pinhole leak on the produced water dump line. The spill was reported on September 23, 2022, and involved the release of approximately 35 barrels (bbl.) of produced water into the lined containment of the tank battery. Approximately 35 bbl. of free fluid was removed during initial spill clean-up. The NMOCD C-141 Report: nAPP2227129446 is included in Attachment 1. The Daily Field Report (DFR) and site photographs are included in Attachment 2.

#### **Closure Criteria Determination**

The depth to groundwater was determined using information from the United States Geological Survey National Water Information Mapping System and Office of the State Engineers Water Rights Database. A 0.5-mile search radius was used to determine groundwater depth. The closest recorded depth to groundwater was determined to be 173 feet below ground surface and 2.7 miles from the site. Documentation used in Closure Criteria Determination research is included in Attachment 3.

	Criteria Worksheet			
	e: North Brushy Draw Federal 35 #012H rdinates:	X: 32.0797257	Y: -103.9514552	
	cific Conditions	Value	Unit	
1	Depth to Groundwater	173	feet	
	Within 300 feet of any continuously flowing	175	1000	
2	watercourse or any other significant watercourse	16,562	feet	
	Within 200 feet of any lakebed, sinkhole or playa			
3	lake (measured from the ordinary high-water	32,897	feet	
	mark)	·		
	Within 300 feet from an occupied residence,	44.700		
4	school, hospital, institution or church	41,708	feet	
	i) Within 500 feet of a spring or a private, domestic			
	fresh water well used by less than five households	19,569	feet	
5	for domestic or stock watering purposes, <b>or</b>			
	ii) Within 1000 feet of any fresh water well or	10.500	feet	
	spring	19,569	reet	
	Within incorporated municipal boundaries or			
	within a defined municipal fresh water field		(Y/N)	
6	covered under a municipal ordinance adopted	No		
6	pursuant to Section 3-27-3 NMSA 1978 as			
	amended, unless the municipality specifically			
	approves			
7	Within 300 feet of a wetland	331	feet	
8	Within the area overlying a subsurface mine	No	(Y/N)	
			Critical	
9	Within an unstable area (Karst Map)	N 4 a aliiaa	High	
9	(Kaist Map)	Medium	Medium	
			Low	
10	Within a 100-year Floodplain	Nondetermined	year	
	, , , , ,		,	
11	Soil Type	Reagan-Upton		
12	Ecological Classification	Loamy		
13	Geology	Qoa		
			<50'	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'	
	The state of the s		>100'	

Based on data included in the closure criteria determination worksheet, the release at North Brushy would not be vertex.ca

subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC and the closure criteria for the site would be determined to be associated with the following constituent concentration limits based on depth to groundwater. The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 1.

Table 1. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater		
less than 10,000 mg/l TDS	Constituent	Limit
	Chloride	600 mg/kg
C C foot	TPH (GRO+DRO+MRO)	100 mg/kg
< 50 feet	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS - Total dissolved solids

#### **Remedial Actions Taken**

An initial site inspection of the spill area was completed on November 4, 2022, which identified the area of the spill specified in the initial C-141 Report. The DFR associated with the site inspection is included in Attachment 2.

Notification that a liner inspection was scheduled to be completed was provided to the NMOCD on November 1, 2022. Visual observation of the liner was completed on all sides and the base of the containment, around equipment, and of all seams in the liner. As evidenced in the DFR (Attachment 2), liner integrity was confirmed. The liner inspection notification email is included in Attachment 4.

#### **Closure Request**

Vertex recommends no remediation action to address the release at North Brushy Draw Federal 35 #012H. The secondary containment liner appeared to be intact and had the ability to contain the release, as shown in the inspection photographs included with the DFR (Attachment 2). There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex requests that incident nAPP2227129446 be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. WPX certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the open release at North Brushy Draw Federal 35 #012H.

TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

BTEX - Benzene, toluene, ethylbenzene, and xylenes

2022 Spill Assessment and Closure November 2022

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.

A		
	November 9, 2022	
Monica Peppin	Date	
DROIECT MANAGER REPORTING		

#### **Attachments**

Attachment 1. NMOCD C-141 Report

Attachment 2. Daily Field Report(s) with Pictures

Attachment 3. Closure Criteria for Soils Impacted by a Release Research Determination Documentation

Attachment 4. Required 48-hr Notification of Liner Inspection to Regulatory Agencies

**2022 Spill Assessment and Closure** November 2022

#### References

- Google Inc. (2022). *Google Earth Pro (Version 7.3.4)* [Software]. Retrieved from http://www.google.com/earth on November 1, 2022.
- New Mexico Bureau of Geology and Mineral Resources. (2022). *Interactive Geologic Map*. Retrieved from http://geoinfo.nmt.edu.
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2022). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx.
- United States Department of the Interior, Bureau of Land Management. (2022). *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico.
- United States Fish and Wildlife Service. (2022). *National Wetlands Inventory Surface Waters and Wetland*. Retrieved from https://www.fws.gov/ wetlands/data/Mapper.html.

vertex.ca

2022 Spill Assessment and Closure November 2022

#### Limitations

This report has been prepared for the sole benefit of WPX Energy Permian, LLC. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and WPX Energy Permian, LLC. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

### **ATTACHMENT 1**

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

Responsible Party WPX Energy Permain, LLC

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2227129446
District RP	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

OGRID 246289

Contact Name Jim Raley			Contact Telephone 575-689-7597				
Contact email Jim.Raley@dvn.com			Incident # (assigned by OCD) nAPP2227129446				
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220							
			Location	n of R	Release S	ource	
Latitude32	2.0797257		(NAD 83 in a	lecimal de	Longitude egrees to 5 decir	103.9514552 mal places)	
Site Name No	ORTH BRU	SHY DRAW FEI	DERAL 35 #012I	Н	Site Type: Oil Well		
Date Release	Discovered	: 9/23/2022			API# (if app	plicable) 30-015-43603	
Unit Letter	Costinu	Township	D		C		
Onit Letter	Section 35	Township 25S	Range 29E	Edd	Cou	nty	
Crude Oi		Volume Released		ch calcula	tions or specific	visitification for the volumes provided below)  Volume Recovered (bbls)	
				ch calcula	tions or specific		
						` ′	
Produced	1 Water	Volume Release				Volume Recovered (bbls) 35	
		Is the concentral produced water	tion of dissolved >10.000 mg/l?	chlorid	e in the	⊠ Yes □ No	
Condensa	ate	Volume Release				Volume Recovered (bbls)	
	Gas	Volume Released (Mcf)				Volume Recovered (Mcf)	
☐ Natural C		r (describe) Volume/Weight Released (provide units)			Volume Recovered (Mcf)		
<u> </u>		Volume/Weight	t Released (provi	de units	)	Volume Recovered (Mct)  Volume/Weight Recovered (provide units)	

Received by OCD: 11/9/2022 2:59:14 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Paga	,,,	$\alpha \tau$	- / <b>/</b>
1 426		(//	/ #
		-,,	

Incident ID	nAPP2227129446
District RP	
Facility ID	
Application ID	

Was this a major release? If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
19.15.29.7(A) NMAC?
⊠ Yes □ No
TOTAL CONTROL OF THE
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Rosa Romero, Mike Bratcher via email on 9/23/2022.
Initial Description
Initial Response
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
∑ The source of the release has been stopped.
☐ The source of the release has been stopped.  ☐ The impacted area has been secured to protect human health and the environment.
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name:Jim Raley Title:Environmental Professional
Signature: Date:9/28/2022
Signature: Date:9/28/2022
email:jim.raley@dvn.com
OCD Only
<del>oob om,</del>

Page 12 of 7

Incident ID nAPP2227129446
District RP
Facility ID
Application ID

### **Site Assessment/Characterization**

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?	173	(ft bgs)
Did this release impact groundwater or surface water?	Yes X	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X	] No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X	] No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X	] No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X	] No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X	] No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X	] No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X	No
Are the lateral extents of the release overlying a subsurface mine?	Yes X	] No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X	] No
Are the lateral extents of the release within a 100-year floodplain?	Yes X	No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	Yes X	No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents	of soil
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well   Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps	ls.	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

NA Laboratory data including chain of custody

Received by OCD: 11/9/2022 2:59:14 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 13 of 71
Incident ID nAPP2227129446
District RP
Facility ID
Application ID

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. Printed Name: Jim Raley Title: Environmental Professional Date: 11/09/2022 Signature:\_\_\_\_\_\_\_fin Rolly Telephone: 575-689-7597 email: jim.raley@dvn.com **OCD Only** Jocelyn Harimon Received by: Date: 11/09/2022

exico Page 14 of 71

Incident ID	nAPP2227129446
District RP	
Facility ID	
Application ID	

### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
email:jim.raley@dvn.com	Telephone: 575-689-7597
OCD Only	
OCD Only  Received by:	Date:11/09/2022
Received by:	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible
Received by:	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.

### **ATTACHMENT 2**



Client:	Devon Energy Corporation	Inspection Date:	11/4/2022	
Site Location Name:	North Brushy Draw Federal 35 #012H	Report Run Date:	11/7/2022 1:19 PM	
Client Contact Name:	Jim Raley	API #:		
Client Contact Phone #:	575-748-0176	_		
Unique Project ID		– Project Owner:		
Project Reference #		Project Manager:		
		Summary of	Times	
Arrived at Site	11/4/2022 1:30 PM			
Departed Site	11/4/2022 2:34 PM			



### **Site Sketch**

# Site Sketch



#### **Field Notes**

- 13:32 Arrived on site to conduct liner inspection
- 13:52 Outside of the containment appears clean and there are no obvious signs of a breach
- **14:32** There does not appear to be any significant damage to the interior or exterior wall of the containment.
- **14:34** There does not appear to be any areas of concern with the liner around the tanks or near the equipment. There is no staining around the containment.

### **Next Steps & Recommendations**

1 Submit DFR and closure report



### **Site Photos**

Viewing Direction: South



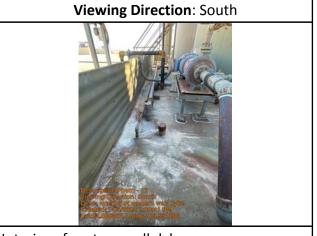
Outside of eastern wall of the containment

Viewing Direction: East

Northwest end of containment and interior of north wall



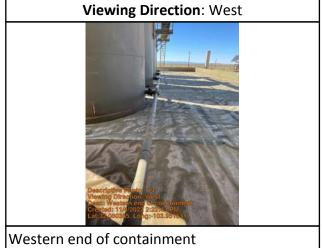
Interior of north wall of containment



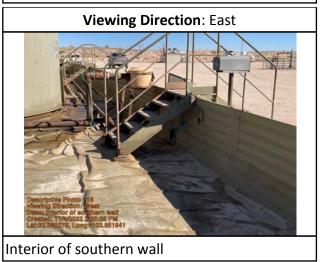
Interior of eastern wall dyke















Area between 4 easternmost tanks



Area between 2nd and 3rd easternmost tanks

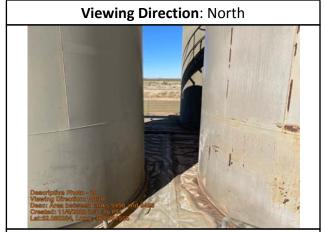


Area between tanks 9497 and 9498



Outside of eastern wall of the containment





Area between tanks 9498 and 9499



South containment wall



Southern containment wall



South wall of containment





West wall of containment



Northern containment wall



North wall of containment



West end of containment and interior of west wall



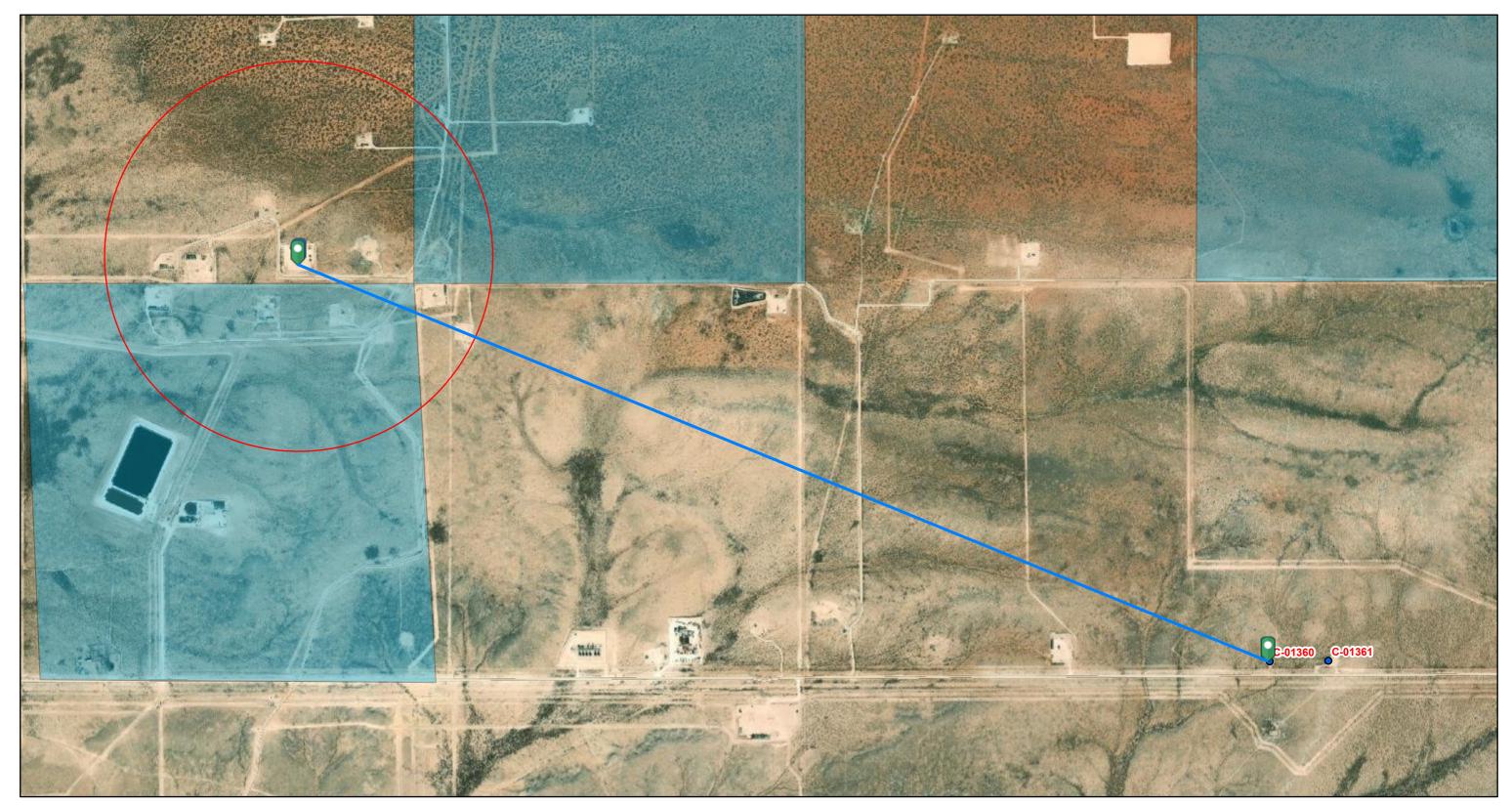
### **Daily Site Visit Signature**

**Inspector:** McKitric Wier

Signature: Signature

### **ATTACHMENT 3**

# North Brushy Draw Federal 35 #012H



10/3/2022, 8:41:09 AM

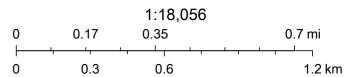
Override 1

OSE District Boundary SiteBoundaries

GIS WATERS PODs New Mexico State Trust Lands

Active

**Both Estates** 



Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar



## New Mexico Office of the State Engineer

# **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

602997

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

4 3 3 05 26S 30E

X Y

3548152

Driller License: 95 Driller Company: FOLK DRILLING CO.

**Driller Name:** 

C 01360

**Drill Start Date:** 04/26/1952 **Drill Finish Date:** 05/15/1952 **Plug Date:** 

**Log File Date:** 11/17/1953 **PCW Rcv Date:** Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 12.75 Depth Well: 770 feet Depth Water: 173 feet

Water Bearing Stratifications: Top Bottom Description

210 220 Sandstone/Gravel/Conglomerate
 580 585 Sandstone/Gravel/Conglomerate
 665 710 Sandstone/Gravel/Conglomerate
 725 770 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

180 289 538 770

Meter Number:16557Meter Make:SIEMENSMeter Serial Number:L1254823Meter Multiplier:100.0000Number of Dials:8Meter Type:Diversion

Unit of Measure: Gallons Return Flow Percent:

Usage Multiplier: Reading Frequency: Quarterly

**Meter Readings (in Acre-Feet)** 

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
07/01/2014	2014	234997	A	RPT	0
09/30/2014	2014	354169	A	RPT	36.573
11/20/2014	2014	7281000	A	RPT	0
12/31/2014	2014	11430100	A	RPT	12.733
04/01/2015	2015	22535200	A	RPT	34.080
07/01/2015	2015	35821800	A	RPT	40.775
10/05/2015	2015	46631200	A	RPT	33.173
12/31/2015	2015	55653200	A	RPT	27.688
01/31/2016	2016	58047600	A	RPT	7.348
02/29/2016	2016	61081100	A	RPT	9.309
03/31/2016	2016	62593100	A	RPT	4.640
06/30/2016	2016	71642600	A	RPT	27.772
10/03/2016	2016	81998399	A	RPT	31.781
12/31/2016	2016	90558600	A	RPT	26.270
04/04/2019	2019	164290087	A	RPT	226.274
10/02/2019	2019	790380	A	RPT METER CHANGE OUT	0

0	7/	'20	1	9

01/02/2020	2020	1733720	Α	RPT
04/07/2021	2021	36814117	A	WEB
07/27/2021	2021	36836238	A	WEB
10/04/2021	2021	36844496	A	WEB
12/31/2021	2021	36847463	A	WEB
X				-
**YTD Met	er Amounts:	Year		Amount
**YTD Met	er Amounts:	Year 2014		<b>Amount</b> 49.306
**YTD Met	er Amounts:			
**YTD Met	er Amounts:	2014		49.306

Meter Number: 16558 Meter Make: MASTERMETER

289.500

10776.013

Meter Serial Number:32530403Meter Multiplier:100.0000Number of Dials:6Meter Type:Diversion

Unit of Measure:GallonsReturn Flow Percent:Usage Multiplier:Reading Frequency:

2020

2021

#### **Meter Readings (in Acre-Feet)**

Read Date	Year M	tr Reading	Fla	g Rdr Comment	Mtr Amount Online
10/01/2014	2014	354169	A	RPT	0
11/20/2014	2014	415555	A	RPT	18.839
11/21/2014	2014	72810	A	RPT	0
12/31/2014	2014	112178	A	RPT	12.082
02/01/2015	2015	147039	A	RPT	10.698
03/02/2015	2015	188133	A	RPT	12.611
04/01/2015	2015	224102	A	RPT	11.038
04/30/2015	2015	270723	A	RPT	14.307
05/31/2015	2015	315628	A	tw	13.781
07/01/2015	2015	369075	A	tw	16.402
08/01/2015	2015	395528	A	tw	8.118
08/31/2015	2015	455361	A	tw	18.362
10/01/2015	2015	466312	A	RPT	3.361
**YTD Met	***YTD Meter Amounts:			Amount	
		2014		30.921	
		2015		108.678	

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.

10/3/22 8:46 AM

POINT OF DIVERSION SUMMARY



### New Mexico Office of the State Engineer

# **Transaction Summary**

72121 All Applications Under Statute 72-12-1

Transaction Number: 461594 Transaction Desc: C 03449 File Date: 06/25/2010

Primary Status: EXP Expired Permit Secondary Status: EXP Expired

Person Assigned: \*\*\*\*\*\*

User: OGX RESOURCES
Contact: SCOTT GREGORY

_				
17	<b>T</b> 7	^	-	4~
г.	·V	P	•	

	Date	Type	Description	Comment	Processed By
get image	06/25/2010	APP	Application Received	*	*****
	06/29/2010	FIN	Final Action on application		*****
	06/29/2010	WAP	General Approval Letter		*****
	11/22/2010	QAT	Quality Assurance Completed	XAP	*****
	10/08/2014	EXP	Expired Permit (well log late)		*****

#### **Change To:**

WR File Nbr Acres Diversion Consumptive Purpose of Use

C 03449 3

\*\*Point of Diversion

C 01360 602997 3548152

#### Remarks

To Use Existing Well C-1360 in the Development of OGX Resources "Cooper 31 Fed. 2H" Project Well, Located in Section 28, T.25S, R.29E

#### **Conditions**

- 3 Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor on or before the 10th of Jan., April, July and Oct. of each year for the 3 preceeding calendar months.
- This permit authorizes the temporary diversion and use of water for prospecting, mining or construction of public works, highways and roads or drilling operations designed to discover or develop the natural mineral resources of the state. The total diversion of water under this permit shall not exceed 3 acre-feet per year.
  - Diversion and use of water under this permit shall not exceed a period of one year from the date of approval.
- Any diversion of water made in excess of the authorized maximum diversion amount shall be repaid with twice the amount of the over-diversion during the

following calendar year. Repayment shall be made by either: (a) reducing the diversion from the well that is the source of the over-diversion; or (b) acquiring or leasing a valid, existing consumptive use water right in an amount equal to the repayment amount and submitting to the State Engineer for his approval a plan for the proposed repayment.

#### **Action of the State Engineer**

\*\* See Image For Any Additional Conditions of Approval \*\*

**Approval Code:** A - Approved **Action Date:** 06/29/2010 **Log Due Date:** 06/29/2011

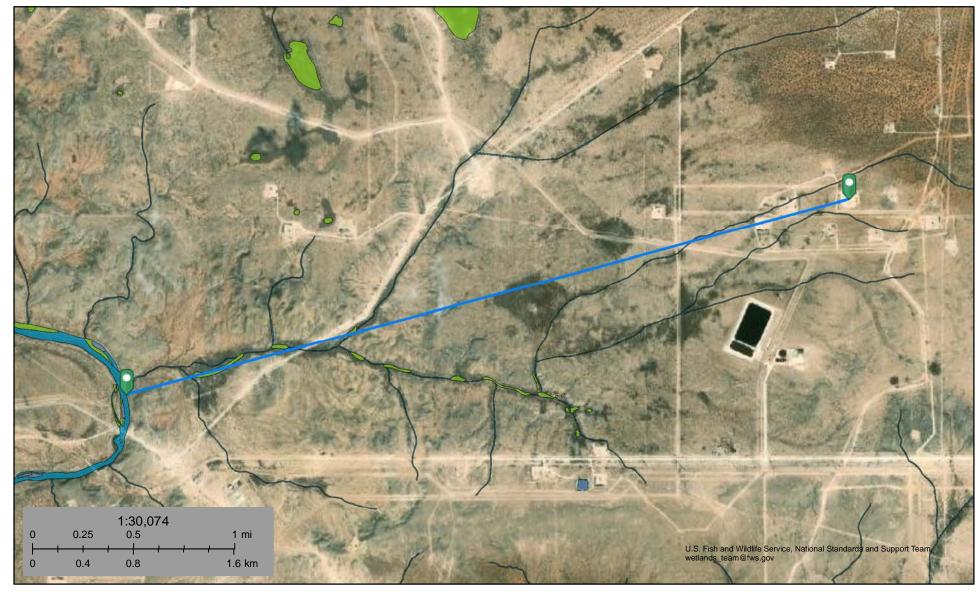
State Engineer: John R. D Antonio,

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.

10/3/22 8:45 AM TRANSACTION SUMMARY



# North Brushy Draw Federal 35 #012H



October 3, 2022

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

Lake

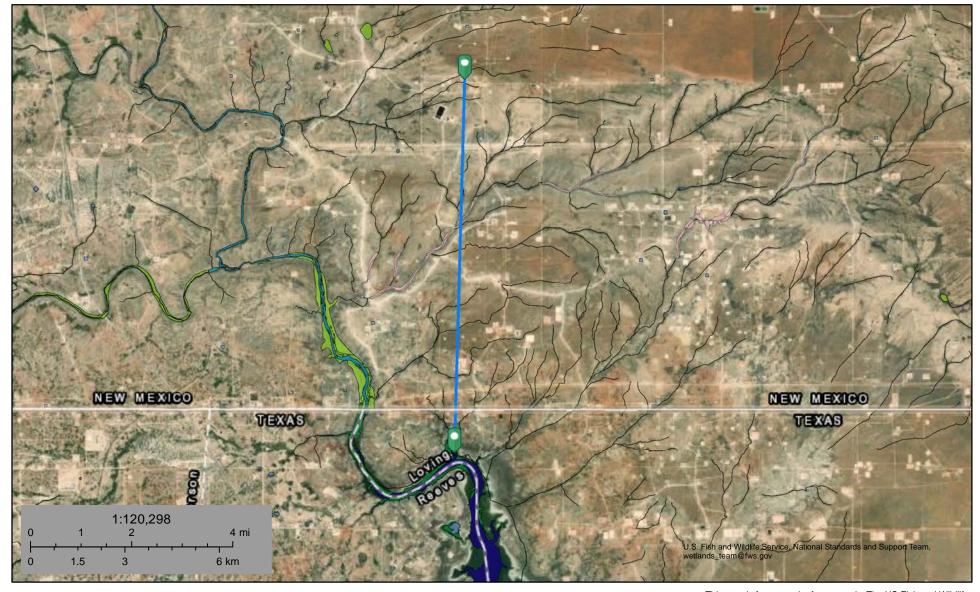
Other

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.



## North Brushy Draw Federal 35 #012H



October 3, 2022

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

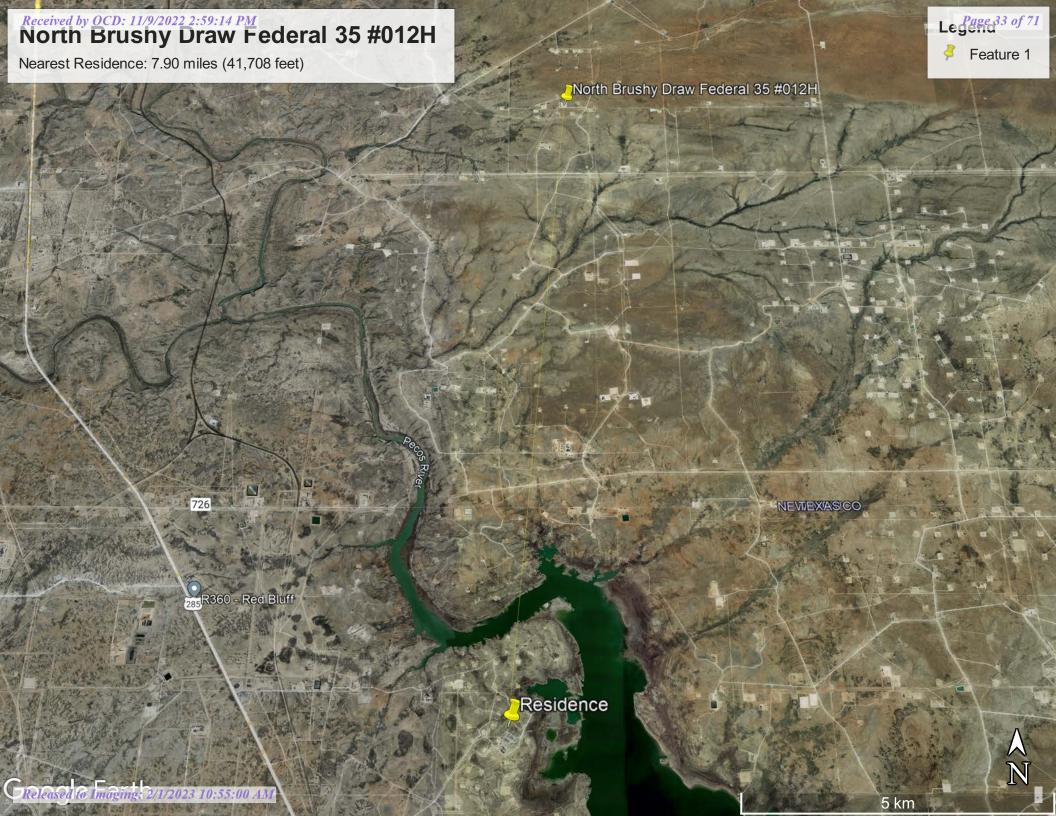
Lake

Other

Riverine

er

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.





### New Mexico Office of the State Engineer

# **Water Right Summary**

get image list

WR File Number: C 01569 Subbasin: C Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

**Primary Status:** PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: WALTER B PASCHAL
Owner: JACKIE C PASCHAL
Owner: KATHRYN F PASCHAL
Owner: BYRON W PASCHAL

**Documents on File** 

	Status					From/				
	Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
<u>t</u> ges	463747	COWNF	1989-11-15	CHG	PRC	C 01569	T		0	
<u>t</u> ges	463743	72121	1974-12-02	PMT	APR	C 01569	T		3	

#### **Current Points of Diversion**

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64 Q16 Q4 Sec
 Tws Rng
 X
 Y
 Other Location Desc

 C 01569
 4
 4
 1
 22
 268
 29E
 596978
 3544093\*

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.

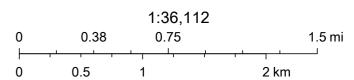
10/3/22 9:16 AM WATER RIGHT SUMMARY

<sup>\*</sup>An (\*) after northing value indicates UTM location was derived from PLSS - see Help

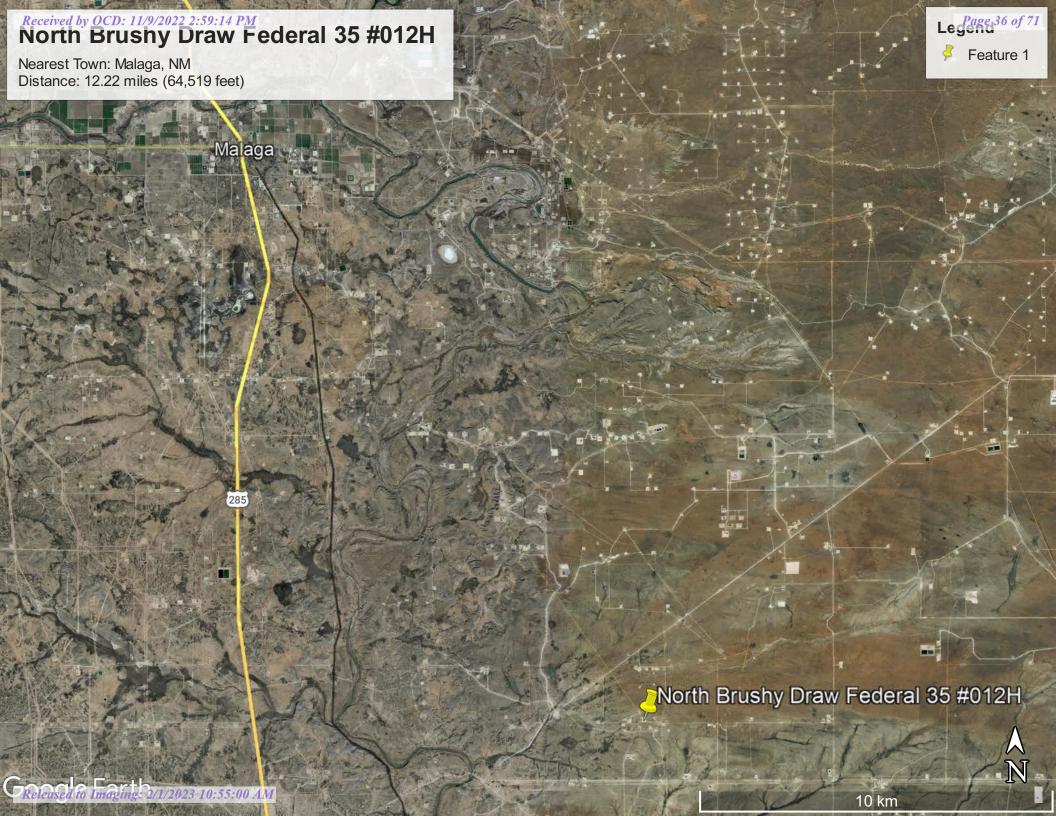
# North Brushy Draw Federal 35 #012H







Esri, HERE, Garmin, Esri, HERE, U.S. Department of Energy Office of Legacy Management, Maxar





# North Brushy Draw Federal 35 #012H



October 3, 2022

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

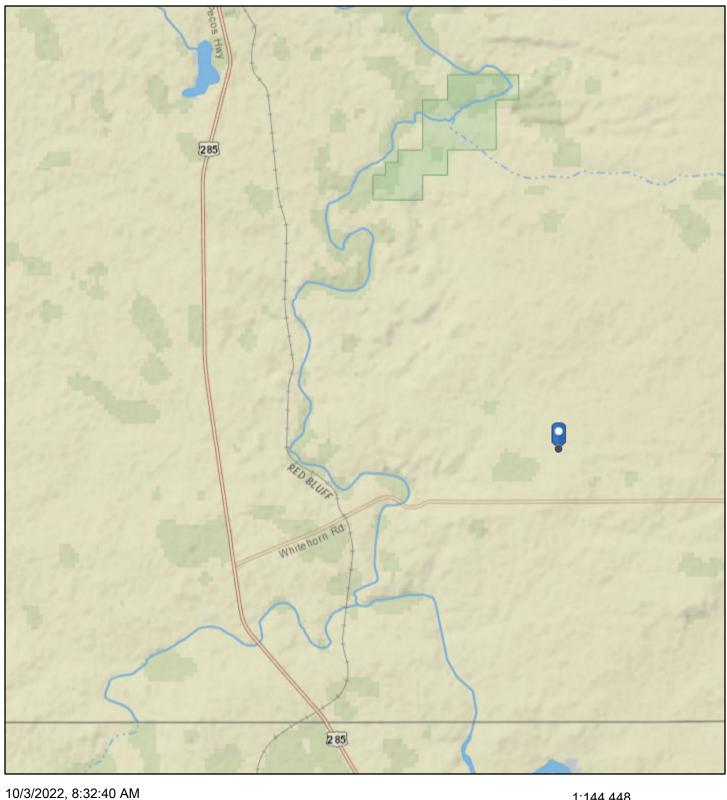
Lake

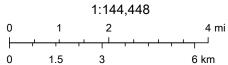
Other

Riverine

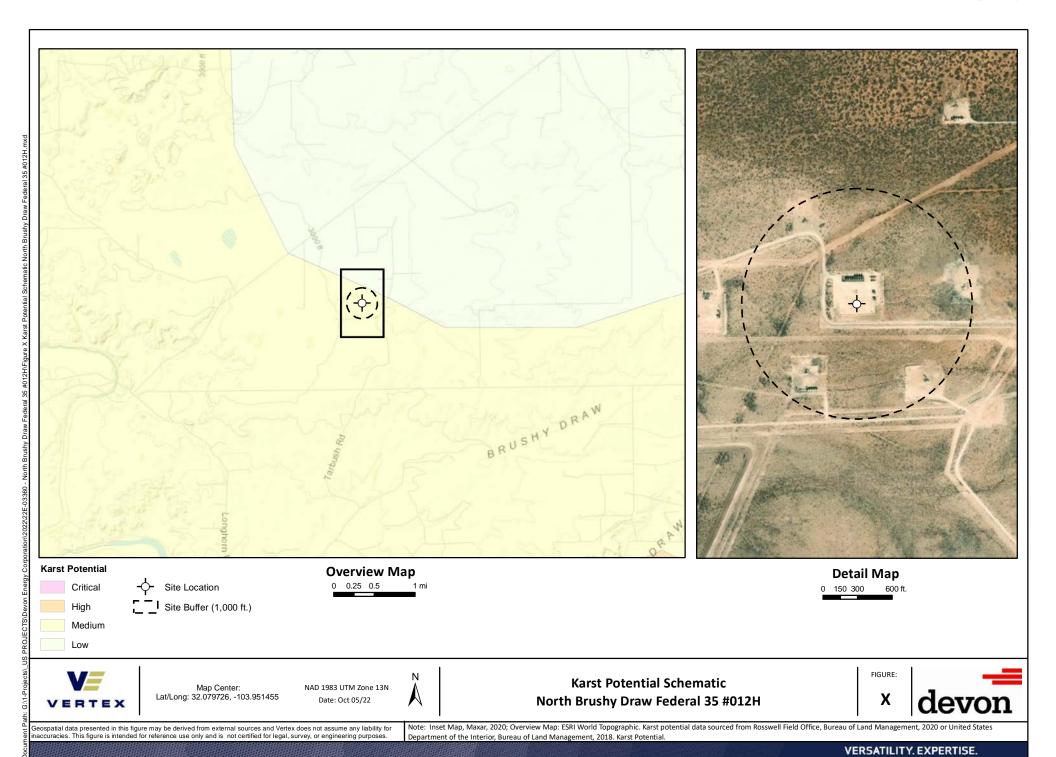
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# North Brushy Draw Federal 35 #012H





National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.



ORelease To Imaging: 2/1/2023 10.95:00 AM

# Received by OCD: 11/9/2022 2:59:14 PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** ----- Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The pin displayed on the map is an approximate point selected by the user and does not represent

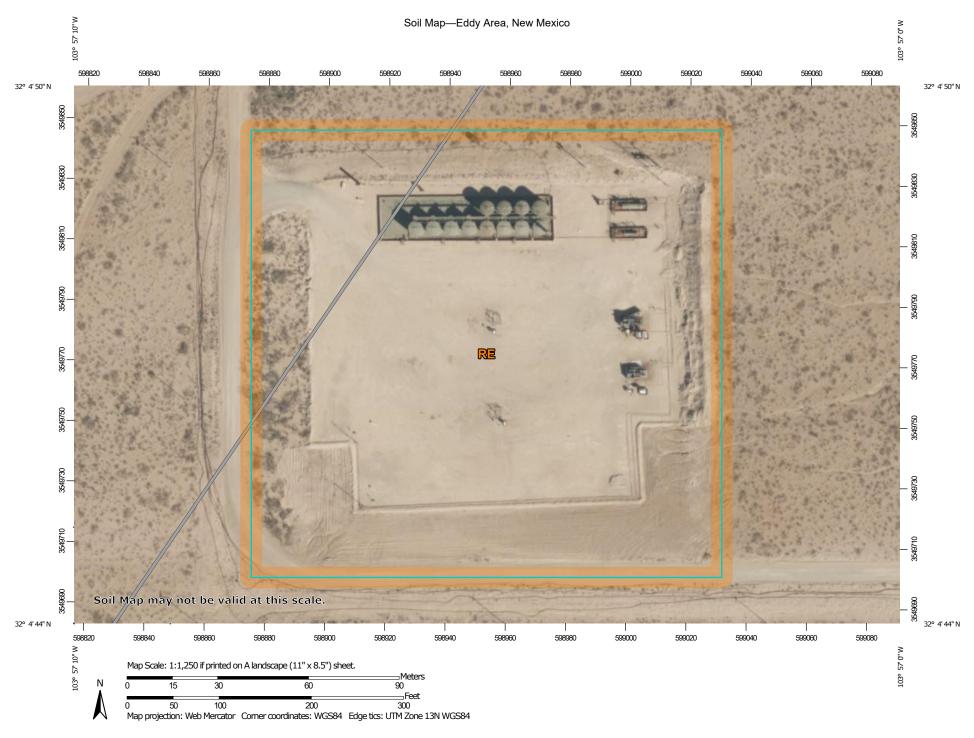
an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/3/2022 at 10:00 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2.000



#### MAP LEGEND

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

#### **Special Point Features**

Blowout  $\odot$ 



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



**Gravelly Spot** 



Landfill



Lava Flow Marsh or swamp





Mine or Quarry Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot 0



Sinkhole



Slide or Slip



Sodic Spot

â

Stony Spot



Very Stony Spot



Wet Spot Other

Spoil Area



Special Line Features

#### Water Features

Streams and Canals

#### Transportation



Rails



Interstate Highways



**US Routes** 



Major Roads



Local Roads

#### Background



Aerial Photography

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RE	Reagan-Upton association, 0 to 9 percent slopes	5.7	100.0%
Totals for Area of Interest		5.7	100.0%

# **Eddy Area, New Mexico**

# RE—Reagan-Upton association, 0 to 9 percent slopes

# **Map Unit Setting**

National map unit symbol: 1w5d Elevation: 1,100 to 5,400 feet

Mean annual precipitation: 6 to 14 inches
Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Farmland of statewide importance

#### **Map Unit Composition**

Reagan and similar soils: 70 percent Upton and similar soils: 25 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Reagan**

#### Setting

Landform: Fan remnants, alluvial fans Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

#### **Typical profile**

H1 - 0 to 8 inches: loam H2 - 8 to 60 inches: loam

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to

8.0 mmhos/cm)

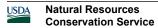
Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.2

inches)

#### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e



Hydrologic Soil Group: B

Ecological site: R042CY153NM - Loamy

Hydric soil rating: No

## **Description of Upton**

#### Setting

Landform: Ridges, fans

Landform position (three-dimensional): Side slope, rise

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Residuum weathered from limestone

#### Typical profile

H1 - 0 to 9 inches: gravelly loam H2 - 9 to 13 inches: gravelly loam H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

#### **Properties and qualities**

Slope: 0 to 9 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Low to

moderately high (0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R042CY159NM - Shallow Loamy

Hydric soil rating: No

#### **Minor Components**

#### **Atoka**

Percent of map unit: 3 percent

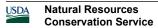
Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

#### Pima

Percent of map unit: 2 percent

Ecological site: R070BC017NM - Bottomland



Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

# **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 18, Sep 8, 2022

# UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

# **ECOLOGICAL SITE DESCRIPTION**

# **ECOLOGICAL SITE CHARACTERISTICS**

Site Type:	Rangeland		
Site ID:	R042XC007NM		
Site Name:	Loamy		
Precipitation	or Climate Zone:	10 to 13 inches	
Phase:			

# PHYSIOGRAPHIC FEATURES

<b>3</b> T			. •		
N	21	$r_{2}$	ıt1	V	e

This site occurs on plains, drained or protected flood plains, broad terraces or fans between desert drainage ways. Slopes range from level to gently sloping, usually less than 5 percent. Direction of slope varies and is not significant. Elevations range from 2,842 to 4,500 feet.

Land Form:		
1. Plain		
2. Terrace		
3. Fan		
Aspect:		
1. Not significant		
2.		
3.		
	3 e	
	Minimum	Maximum
Elevation (feet)	2,842	4,500
Slope (percent)	0	5
Water Table Depth (inches)	N/A	N/A
Flooding:	Minimum	Maximum
Frequency	N/A	N/A
Duration	N/A	N/A
Pounding:	Minimum	Maximum
Depth (inches)	N/A	N/A
Frequency	N/A	N/A
Duration	N/A	N/A
Runoff Class:		
Low to High		
Low to High		

#### **CLIMATIC FEATURES**

#### Narrative:

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 is in late March or early April, and the first killing frost is in late 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 in January through June rapidly drying out the soil during a critical time for cool season plant growth.

	Minimum	Maximum
Frost-free period (days):	180	221
Freeze-free period (days):	199	240
Mean annual precipitation (inches):	10.0	13.0

Monthly moisture (inches) and temperature (<sup>0</sup>F) distribution:

Ĵ	Precip. Min.	Precip. Max.	Temp. Min.	Temp. Max.
January	0.40	0.42	20.6	59.7
February	0.40	0.41	25.2	65.6
March	0.41	0.43	31.4	72.7
April	0.58	0.63	40.4	81.5
May	1.28	1.35	49.6	88.7
June	1.40	1.46	59.1	95.4
July	1.62	1.64	63.3	96.4
August	1.79	1.84	61.6	94.8
September	1.81	2.20	54.1	88.5
October	1.16	1.41	40.7	80.4
November	0.43	0.47	28.4	68.7
December	0.48	0.51	20.9	61.1

Climate Stat	ions:						
					Perio	od	
Station ID	NM0600	Location	Artesia, NM	From:	1961		1990
Station ID	NM0992	Location	Bitter Lakes WL Refuge, NM	From:	1961	To :	1990
		-			Perio	od	
Station ID	NM1469	Location	Carlsbad, NM	From:	1961	То	1990
		_	,			:	
		-			Perio	od	
Station ID	NM293792	Location	Hagerman, NM	From:	1920	To	1960
		_				:	
		-			Perio	: od	
Station ID	NM299569	Location	Waste Isolation	From:	Perio 1986	od To	2000
Station ID	NM299569	Location		From:			2000
Station ID	NM299569	Location	Waste Isolation	From:		To :	2000
Station ID Station ID	NM299569 NM4346	Location Location	Waste Isolation	From:	1986	To :	2000
		-	Waste Isolation Plant, NM	_	1986 Perio	To : od	

# INFLUENCING WATER FEATURES

NI	arrativa

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

# Wetland description:

System	Subsystem	Class
N/A		

If Riverine Wetland System enter Rosgen Stream Type:

N/A

#### REPRESENTATIVE SOIL FEATURES

#### Narrative:

The soils of this site are deep to moderately deep and well drained. A few are shallow to gypsiferous material. The surface layers are loam, silt loam, silty clay loam, or clay loam. The underlying layers are loam, silty clay loam and clay loam. Permeability is moderate to slow and the available water holding capacity is high to moderate.

Parent Material Kind: Alluvium
Parent Material Origin: Mixed

#### Surface Texture:

loam
 silty clay loam
 silt loam

#### Surface Texture Modifier:

1. N/A	
2.	
3.	

Subsurface Texture Group:

Surface Fragments <=3" (% Cover): N/A

Surface Fragments >3" (% Cover): N/A

Subsurface Fragments <=3" (% Volume): 0 - 5 percent

Subsurface Fragments >=3" (% Volume): N/A

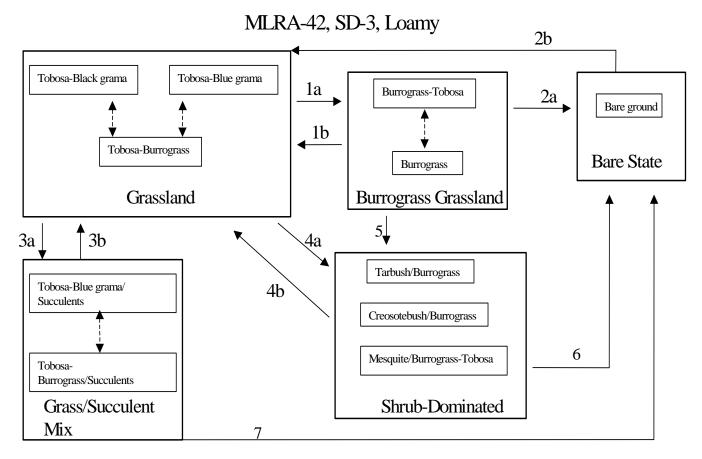
	Minimum	Maximum
Drainage Class:	well	well
Permeability Class:	very slow	slow
Depth (inches):	20	>72
Electrical Conductivity (mmhos/cm):	2	16
Sodium Absorption Ratio:	0	15
Soil Reaction (1:1 Water):	6.6	8.4
Soil Reaction (0.1M CaCl2):	N/A	N/A
Available Water Capacity (inches):	1	8
Calcium Carbonate Equivalent (percent):	N/A	N/A

#### PLANT COMMUNITIES

Ecological Dynamics of the Site:

Overview: The Loamy site is associated with the Gyp Upland ecological site with which it intergrades. There is a pronounced increase in alkali sacaton along this interface. The loamy site is also associated with the Gravelly and Shallow ecological sites from which it receives run-on water. The Draw site often dissects Loamy sites and is distinguished from the Loamy site by increased production or greater densities of woody species. The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Tobosa, black grama and blue grama are the dominant species. Retrogression within this state is characterized by a decrease in black and blue grama and an increase in burrograss. Continuous overgrazing and drought can initiate a transition to a Burrograss- Grassland state. Continued reduction in grass cover and resulting infiltration problems may eventually effect a change to a Bare State, with very little or no remaining grass cover. Alternatively, creosotebush, tarbush or mesquite may expand or invade. Transitions back to a Grassland State from a Bare or Shrub-Dominated state are costly and may not be economically feasible. Decreased fire frequency may play a part in the transition to the Grass/Succulent Mix state with increased amounts of cholla and prickly pear.

# Plant Communities and Transitional Pathways (diagram)



1a. Soil drying, overgrazing, drought, soil surface sealing. 1b. Restore natural overland flow, increase infiltration, prescribed grazing.

- 2a. Severe reduction in cover, soil surface sealing, decreased infiltration, erosion. 2b. Restore hydrology, break up physical crust, range seeding, prescribed grazing.
- 3a. Lack of fire, overgrazing, hail storms or other physical disturbance, drought. 3b. Prescribed fire, brush control, prescribed grazing.
- 4a. Seed dispersal of shrubs, persistent loss of grass cover, competition by shrubs, lack of fire. 4b. Brush control, range seeding -dependent on amount of grass (seed bank) remaining.
- 5. Loss of grass cover, seed dispersal of shrubs, competition by shrubs.
- 6. & 7. Brush control with continued loss of grass cover, soil sealing, erosion.

# Plant Communities Photo Display & Descriptive Diagnosis

# MLRA 42; SD-3; Loamy

# Grassland





- •Tobosa-black grama, some yucca and prickly pear
- •Grass cover moderate, distributed fairly uniform
- •Few large bare patches

## Grassland





- •Tobosa-burrograss, with some black grama and scattered prickly pear
- •Grass cover moderate
- •Few large bare patches
- •Russler silt loam

# Transition towards shrub Dominated





- •Tarbush / burrograss, with some toboss
- •Fine textured calcareous soils
- •Bare patches evident
- •Soil surface sealing
- •Reagan silt loam

# Shrub-Dominated





- Mesquite / burrograss, with scattered patches of tobosa
- •Sandy surface over finer textured soils
- •Grass cover moderate to low
- •Bare patches evident

Plant Community Name: Historic Climax Plant Community						
Plant Community Sequence N	Number:	1	Narrative Label:	НСРС		
Plant Community Narrative:						

# **State Containing Historic Climax Plant Community**

# **Grassland:**

The historic plant community has a grassland aspect, dominated by grasses with shrubs and halfshrubs sparse and evenly distributed. Black grama, blue grama, and tobosa are the dominant grass species. There are a variety of perennial forbs and their production varies widely by season and by year. Globemallow, verbena, groundsels, croton and filaree are forbs commonly found on this site. Fourwing saltbush and winterfat are two of the more palatable shrubs. The Loamy ecological site encompasses a wide variety of soils, with surface textures ranging from sandy loams to clay loams. Soil depths range from shallow to very deep and can include sub surface features such as calcic, petrocalcic, and gypsic horizons. These variations cause differences in plant community composition and dynamics. Black grama is found at highest densities on coarser textured sandy loams, with blue grama preferring finer textured loam and silt loam, and tobosa favoring lower landscape positions and loam to clay loam surface textures. Burrograss may often be the dominant grass species on silty soils, perhaps in part due to the seedlings ability to auger into and establish on physically crusted soils. Gypsum influenced soils typically have greater amounts of tobosa, burrograss, and ephedra. There is greater representation of sideoats and vine mesquite within the tobosa-blue grama community. Retrogression under continuous heavy grazing results in a decrease of black grama, blue grama, sideoats grama, plains bristlegrass, bush muhly, cane bluestem, vine mesquite, winterfat, and fourwing saltbush. Species such as burrograss, threeawns, sand dropseed, sand muhly, and broom snakeweed increase under continuous heavy grazing or prolonged periods of drought. Under continued retrogression burrograss can completely dominate the site. Creosotebush, tarbush, and mesquite, can also dominate. Cholla and prickly pear can increase on areas that are disturbed or overgrazed.

Diagnosis: Tobosa, black grama, and blue grama are the dominant species. Grass cover is uniformly distributed with few large bare areas. Shrubs are sparse and evenly distributed. Slopes range from level to gently sloping and usually display limited evidence of active rills and gully formation if plant cover remains intact. Litter movement associated with overland flow is limited to smaller size class litter and short distances.

Ground Cover (Average Percent of Surface Area).	
Grasses & Forbs	15 – 30
Bare ground	40 – 50
Surface cobble and stone	1 – 5
Litter (percent)	25 – 30
Litter (average depth in cm.)	3

# Plant Community Annual Production (by plant type): Annual Production (lbs/ac)

Plant Type	Low	RV	High
Grass/Grasslike	585	833	1080
Forb	39	55	72
Tree/Shrub/Vine	26	37	48
Lichen			
Moss			
Microbiotic Crusts			
Totals	650	925	1200

# **Plant Community Composition and Group Annual Production:** Plant species are grouped by annual production **not** by functional groups.

Plant Type - Grass/Grasslike

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production
1	PLMU3	tobosa	278 - 324	278 - 324
2	SCBR2	burrograss	9 - 46	9 - 46
3	BOER4	black grama	231- 278	231- 278
3	BOGR2	blue grama		
4	BOCU	sideoats grama	28 - 46	28 - 46
5	MUPO2	bush muhly	46 – 93	46 – 93
5	SEVU2	plains bristlegrass		
6	DICA8	Arizona cottontop	9 – 28	9 – 28
7	ARIST	threeawns spp.	46 – 93	46 – 93
7	SPCR	sand dropseed		
7	MUHLE	muhly spp.		
8	2GP	other grasses	28 - 46	28 - 46

Plant Type - Tree/Shrub/Vine

Group	Scientific		Species	Group
Number	Plant	Common Name	Annual	Annual
	Symbol		Production	Production
9	ATCA2	fourwing saltbush	9 - 28	9 - 28
9	EPHED	ephedra spp.		
9	KRLA2	winterfat		
10	GUSA2	broom snakeweed	9 - 28	9 - 28
10	MIERX	javelinabush		
11	2SHRUB	other shrubs	9 - 28	9 - 28

Plant Type – Forb

riam ryp	C - 1 010			
12	SPHAE	globemallow	9 - 46	9 - 46
12	VEPO4	verbena		
12	SEFLF	threadleaf groundsel		
13	PACAL5	wooly groundsel	9 - 28	9 - 28
13	CROTO	croton		
14	MAPIG2	cutleaf haplopappus	9 - 28	9 - 28
14	PSTA	wooly paperflower		
15	ERTE13	Texas filaree	9 - 28	9 - 28
15	ERCI6	Arizona filaree		
16	2FORB	other forbs	9 - 28	9 - 28

Plant Type - Lichen

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production

Plant Type - Moss

Group Number	Scientific Plant Symbol	Common Name	Species Annual Production	Group Annual Production

Plant Type - Microbiotic Crusts

Group Number	Scientific Plant	Common Name	Species Annual	Group Annual
Number	Symbol	Common Ivame	Production	Production

Other grasses that could appear on this site would include: silver bluestem, cane bluestem, alkali sacaton, vine-mesquite, Hall's panicum, hairy grama, mesa dropseed, spike dropseed and fluffgrass.

Other shrubs include: yucca, mesquite, tarbush, cholla and creosote bush.

Other forbs include: desert holly, scorpionweed, bladderpod, flax, mama, fleabane, Indianwheat, Indian blanket flower, groundcherry, deerstongue, and rayless goldenrod.

Plant Growth Curves

Growth Curve ID NM2807

Growth Curve Name: HCPC

Growth Curve Description: SD-3 Loamy - Warm season plant community

Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
0	1	3	4	10	10	25	30	12	5	0	0

#### **Additional States:**

**Burrograss-Grassland:** Changes in hydrology resulting in decreased available soil moisture, reduces grass cover and increases cover of bare ground. Burrograss is the dominant grass. Tobosa cover is variable and can range from sizeable areas to small patches occupying only depressions or the lowest and wettest positions within the site. Threeawns, ear muhly, sand muhly, and fluffgrass occur at increased densities compared to the grassland state. Shrub densities may increase especially mesquite, creosotebush or tarbush. Retrogression within this state is characterized by a further decrease in grass cover and increased bare ground. Further deterioration of this site can result in the transition to a bare state or becoming shrub dominated.

<u>Diagnosis:</u> Burrograss is the dominant species. Grass cover is no longer uniformly distributed, instead tending to be patchy with large areas of bare ground present. Physical crusts are present in bare areas reducing infiltration and suppressing seedling establishment by any grass species other than burrograss.

**Transition to Burrograss-Grassland (1a):** Transitions from grassland to a burrograss-grassland state may occur due to changes in hydrology. Gullies, roads or obstructions that alter natural water flow patterns may cause this transition. Changes in surface hydrology may also occur due to overgrazing or drought. The reduction in grass cover promotes increased soil physical crusts and reduces infiltration. <sup>5</sup>

# Key indicators of approach to transition:

- Diversion of overland flow resulting in decreased soil moisture.
- Increase in amount of burrograss cover
- Reduction in grass cover and increase in size and frequency of bare patches.
- Formation of physical crusts—indicating reduced infiltration.
- Evidence of litter movement—indicating loss or redistribution of organic matter.

**Transition back to Grassland (1b)** The natural hydrology of the site must be returned. Culverts, turnouts, or rerouting roads may help re-establish natural overland flow, if roads or trails have altered the hydrology. Erosion control structures or shaping and filling gullies may help regain natural flow patterns and establish vegetation if the flow has been channeled. Breaking up physical crusts by soil disturbance may promote infiltration and seedling emergence. Allow natural revegetation to take place. Prescribed grazing will help ensure proper forage utilization and reduce grass loss due to grazing.

**Bare State:** Extremely low ground cover, soil degradation and erosion characterize this state. Very little vegetation remains. Burrograss is the dominant grass and cover is extremely patchy. Physical soil crusts are extensive. Erosion and resource depletion increase as site degrades.

<u>Diagnosis:</u> Very little cover remains. Erosion is evident by soil sealing, water flow patterns, pedestals or terracettes. Rills and gullies may be present and active.

**Transition to Bare State (2a):** Extended drought, continuous heavy grazing, or other disturbance that severely depletes grass cover can effect this transition. As grass cover decreases,

sheet flow and erosion increase, and physical soil crusts form, thereby further reducing infiltration.

# Key indicators of approach to transition:

- Continued reduction in grass cover.
- Increased soil surface sealing.
- Increased erosion.
- Reduced aggregate stability in bare areas.

Transition back to Grassland (2b) Restore the hydrology, see (1a). With the extent of grass loss range seeding may be necessary. Utilizing livestock or mechanical means to break up the physical crusts may increase infiltration and aid seedling establishment. Prescribed grazing will help ensure adequate deferment period following seeding, and proper forage utilization once the grass stand is well established. The degree to which this site is capable of recovery depends on the restoration of hydrology, extent of degradation to soil resources, and adequate rainfall necessary to establish grasses.

<u>Grass / Succulent Mix:</u> Increased representations of succulents characterize this site. Increased densities of cholla or pricklypear is recognized as a management concern, but their impact on grass production is unclear. Light to medium cholla or prickly pear infestation doesn't seem to greatly reduce grass production, however it limits access to palatable grasses and interferes with livestock movement and handling. Tobosa and blue grama are the dominant species on this site. Retrogression within this site is characterized by a decrease in blue grama and an increase in succulents, tobosa and burrograss.

<u>Diagnosis:</u> Cholla or prickly pear is found at increased densities. Grass cover is variable ranging from uniformly distributed to patchy with frequent areas of bare ground present. Tobosa or blue grama is the dominant grass species.

**Transition to Grass/Succulent Mix (3a):** If fire was historically a part of desert grassland ecosystem and played a role in suppressing seedlings of shrubs and succulents, then fire suppression may favor the increase of succulents. Heavy grazing by livestock or other physical disturbances may help disseminate seed and increase the establishment of succulents. Areas historically overgrazed by sheep are sometimes associated with higher densities of Succulents. Intense hailstorms can spread pricklypear by breaking off joints causing new plants to take root. During severe drought perennial grass cover can decline significantly, leaving resources available for use by more drought tolerant succulents. Cholla and pricklypear are both adapted to and favored by drought due to the ability of their shallow, wide spreading root systems to absorb and store water. 4

# Key indicators of approach to transition:

- Decrease or change in distribution of grass cover.
- Increase in amount of succulent seedlings.
- Increased cover of succulents.

**Transition back to Grassland (3b)** Fire is an effective means of controlling cholla and prickly pear if adequate grass cover remains to carry fire.<sup>2</sup> Cholla greater than two feet tall or pricklypear with a large amount of pads (>15-20) are harder to kill. Chemical control is effective in controlling prickly pear and cholla; apply when growth starts in May. Hand grubbing is also effective if cholla or pricklypear is severed 2-4 inches below ground and care is taken not to let broken joints or pads take root. Stacking and burning piles and grubbing during winter or drought help keeps broken joints and pads from rooting. Prescribed grazing will help ensure proper forage utilization and sustain grass cover.

Shrub Dominated: Increased shrub cover characterizes this state. Mesquite, creosotebush, and/or tarbush are the dominant shrub species. Burrograss or tobosa is the dominant grass species. Grass cover is decreased, typically patchy with large bare areas present; however, sometimes grass cover can remain relatively high for extended periods when associated with light to moderate infestations of mesquite. Variations in soil characteristics play a part in determining which shrub species increase. Mesquite is well adapted to a wide range of soil types, but increases more often on deep soils low in carbonates, that have a sandy surface overlying finer textured soils. Tarbush prefers finer textured, calcareous soils, usually in lower positions that receive some extra water. Creosotebush is less tolerant of fine textured soils, preferring sandy, calcareous soils that have some gravel. Creosotebush also does well on soils that are shallow over caliche. Retrogression within this state is characterized by a decrease in tobosa, and an increase in burrograss. As the site continues to degrade shrub cover continues to increase and grass cover is severely reduced.

<u>Diagnosis:</u> Mesquite, Creosotebush, and/or tarbush are the dominant shrubs. Blue grama and black grama cover is low or absent. Burrograss or tobosa are the dominant grasses. Typically grass cover is patchy with large interconnected bare areas present. Physical soil crusts are present, especially on silt loam surface soils.

**Transition to Shrub Dominated (4a):** Wildlife and livestock consume and disperse mesquite seeds. Flood events may wash creosote or tarbush seeds off adjacent gravelly sites onto the loamy site and supply adequate moisture for germination. Persistent loss of grass cover due to overgrazing or drought can cause large bare patches, providing competition free areas for shrub seedling establishment. As shrub cover increases, competition for soil resources, especially water, becomes a major factor in further reducing grass cover. Reduction of fire, due to either fire suppression policy or loss of adequate fine fuels may increase the probability of shrub encroachment. Increased soil surface physical crusts and associated decreased infiltration, may prevent the establishment of grass seedlings.

<u>Transition to Shrub Dominated (5):</u> The dispersal of creosotebush, tarbush or mesquite seed, combined with loss of grass cover and resource competition by shrubs may cause this transition.

# Key indicators of approach to transition:

- Decreased grass and litter cover.
- Increased bare patch size.
- Increased physical soil crusts.
- Increased amount of mesquite, creosotebush, or tarbush seedlings.
- Increased shrub cover.

<u>Transition back to Grassland</u> (4b) Brush control will be necessary to remove shrubs and eliminate competition for resources necessary for grass establishment or reproduction. Seeding may be necessary on those sites where desired grass species are absent or very limited. Pitting and seeding may increase the chances of successful grass establishment. Prescribed grazing will help ensure adequate time is elapsed before grazing seeded area is allowed and proper forage utilization following seeding establishment.

<u>Transition to Bare State</u> (6): If grass cover on the shrub-dominated state is severely limited and shrubs are removed a bare state may result. This transition will depend on amount of grasses or seed remaining, whether site is seeded, or if seeding is successful.

<u>Transition to Bare State (7):</u> Removal of succulents and continued overgrazing or drought may cause loss of remaining grasses and erosion. Soil surface physical crusting may also be an important factor in inhibiting grass seedling establishment.

#### ECOLOGICAL SITE INTERPRETATIONS

## **Animal Community:**

This site provides habitats which support a resident animal community that is characterized by pronghorn antelope, black-tailed jackrabbit, black tailed prairie dog, yellow-faced pocket gopher, banner-tailed kangaroo rat, hispid cotton rat, swift fox, burrowing owl, horned lark, mockingbird, meadowlark, mourning dove, scaled quail, Great Plains toad, plains spadefoot toad, prairie rattlesnake and western coachwhip shake.

# **Hydrology Functions:**

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations				
Soil Series	Hydrologic Group			
Atoka	C			
Bigetty	C			
Cottonwood	C			
Hoban	В			
Hodgins	В			
Holloman	C			
La Lande	C			
Largo	В			
Mimbres	С			
Pima	В			
Reagan	С			
Reakor	В			
Reeves	С			
Russler	C			

## **Recreational Uses:**

This site offers limited potential for hiking, horseback riding, nature observation and photography. Game bird, antelope and predator hunting are also limited.

#### **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, during all seasons of the year. Under retrogression, such plants as black grama, blue grama, sideoats grama, bush muhly, plains bristlegrass, Arizona cottontop, fourwing saltbush and winterfat decrease and there is an increase in burrograss, threeawns, sand dropseed, muhlys, broom snakeweed and javilinabush. Under continued retrogression, burrograss can completely dominate the site. Creosotebush and tarbush can also dominate. Grazing management alone will not improve the site in the above situation. This site is well suited to a system of management that rotates the season of use.

Other Information:	
Guide to Suggested Initial Stocking	g Rate Acres per Animal Unit Month
Similarity Index	Ac/AUM
100 - 76	3.0 - 4.2
75 – 51	4.1 - 5.5
50 – 26	5.3 – 7.0
25 – 0	7.1 +

# **Plant Preference by Animal Kind:**

	Code	Species Preference	Code	
Stems	S	None Selected	N/S	
Leaves	L	Preferred	P	
Flowers	F	Desirable	D	
Fruit/Seeds	F/S	Undesirable	U	
Entire Plant	EP	Not Consumed	NC	
Underground Parts	UP	Emergency	E	
	•	Toxic	Т	

Animal Kind: Livestock

i inimai i i i i i i i i i i i i i i i i i i	Livestock													
Animal Type:	Cattle													
		Plant	Forage Preferences											
Common Name	Scientific Name	Part	J	F	M	A	M	J	J	A	S	О	N	D
Black grama	Bouteloua eriopoda	EP	P	P	P	D	D	D	D	D	D	D	P	P
Blue grama	Bouteloua gracilis	EP	D	D	D	D	D	P	P	P	P	P	D	D
Sideoats grama	Bouteloua curtipendula	EP	P	P	P	P	P	P	P	P	P	P	P	P
Bush muhly	Muhlenbergia porteri	EP	P	P	P	P	P	P	P	P	P	P	P	P
Plains bristlegrass	Setaria vulpiseta	EP	D	D	D	D	D	P	P	P	P	D	D	D
Arizona cottontop	Digitaria californica	EP	D	D	D	D	D	P	P	P	D	D	D	D
Fourwing saltbush	Atriplex canescens	EP	P	P	P	P	P	D	D	D	D	D	P	P
Mormon-tea	Ephedra viridis	EP	P	P	P	P	D	D	D	D	D	P	P	Р
Winterfat	Krascheninnik ovia lanata	EP	P	P	P	P	P	P	P	P	P	P	P	Р
Verbena	Verbena polystachya	EP	N/ C	N/ C	N/ C	D	D	D	D	D	D	N/ C	N/ C	N/ C
Texas filaree	Erodium texanum	EP	N/S	P	P	P	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Arizona filaree	Erodium cicutarium	EP	N/S	P	P	P	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Tobosa	Pleuraphis mutica	EP	N/S	N/S	D	D	D	P	P	P	D	D	D	N/S
Burrograss	Scleropogon brevifolius	EP	D	D	D	D	D	D	P	P	P	D	D	D
Sand dropseed	Sporobolus cryptandrus	EP	U	U	U	D	D	D	D	D	D	U	U	U

# **Supporting Information**

Associated Sites:

<u>Site Name</u> <u>Site ID</u> <u>Site Narrative</u>

**Similiar Sites:** 

<u>Site Name</u> <u>Site ID</u> <u>Site Narrative</u>

State Correlation:

This site has been correlated with the following states: Texas

Number of

<u>Data Source</u> <u>Records</u> <u>Sample Period</u> <u>State</u> <u>County</u>

Type Locality:

Relationship to Other Established Classifications:

## Other 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 Chavez County.

Characteristic Soils Are:	
Atoka loam	Pima silt loam
Bigetty loam	Reagan loam
Cottonwood loam	Reakor loam
Hoban loam	Reakor silty clay loam
Hodgins silty clay loam	Reeves loam
La Lande loam	Russler silty loam
Largo loam	Russler silty clay loam
Mimbres silt loam	
Other Soils included are:	

- 1. Brooks, M.L., AND D.A. Pyke. 2001. Invasive plants and fire in the deserts of North America. Pages 1–14 *in* K.E.M. Galley and T.P. Wilson (eds.). Proceedings of the Invasive Species Workshop: the Role of Fire in the Control and Spread of Invasive Species.
- 2. Bunting, S.C., H.A. Wright, and L.F. Neuenschwander. 1980. Long-term effects of fire on cactus in the Southern Mixed Prairie of Texas. J. Range. Manage. 33: 85-88.
- 3. Laycock, W.A. 1982. Hail as an ecological factor in the increase of prickly pear cactus. p. 359-361. *In:* J.A. Smith and V.W. Hays (eds.) Proc. XIV Int. Grassland Congr. Westview Press, Boulder, Colo.
- 4. Vallentine, J.F. 1989. Range Developments and Improvements. 3rd Edition. Academic Press. San Diego, California.
- 5. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheet. Rangeland Soil Quality—Physical and Biological Soil Crusts. Rangeland Sheet 6, [Online]. Available: <a href="http://www.statlab.iastate.edu/survey/SQI/range.html">http://www.statlab.iastate.edu/survey/SQI/range.html</a>

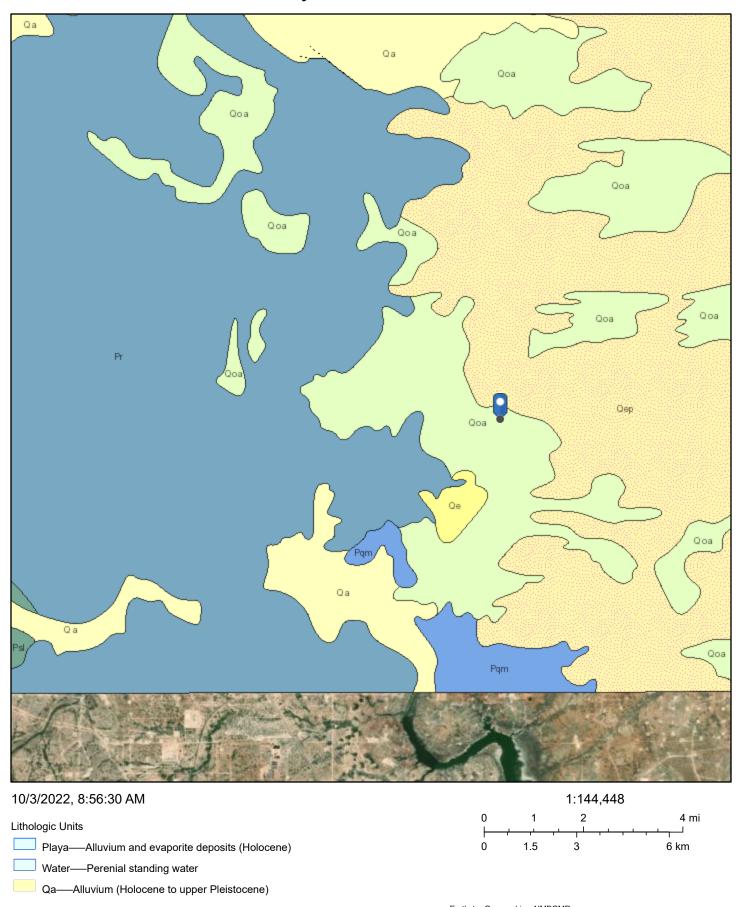
## Site Description Approval:

<u>Author</u>	<u>Date</u>	<u>Approval</u>	<u>Date</u>
Don Sylvester	07/12/1979	Don Sylvester	07/12/79

# Site Description Revision:

<u>Author</u>	<u>Date</u>	<u>Approval</u>	<u>Date</u>
David Trujillo	04/02/03	George Chavez	04/02/03

# North Brushy Draw Federal 35 #012H



Earthstar Geographics, NMBGMR

# **ATTACHMENT 4**

# **Monica Peppin**

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

**Sent:** November 1, 2022 9:27 AM

To: Enviro, OCD, EMNRD; CFO\_Spill, BLM\_NM

**Cc:** Monica Peppin; Raley, Jim

**Subject:** 48 HR Notification Liner Inspection North Brushy Draw Fed 35-12 nAPP2227129446

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled a liner inspection to be conducted for the following release:

nAPP2227129446 DOR: 9/23/2022 Site Name: North Brushy Draw Federal 35 #012H

This work will be completed on behalf of WPX Energy Permian, LLC

On Friday, November 4, 2022 at approximately 10:00 a.m., Monica Peppin will be on site to conduct a liner inspection. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

#### **Monica Peppin**

Project Manager

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

P 575.725.5001 Ext. 711 C 575.361.9880 F

#### www.vertex.ca

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any disclosure, copying, use, or distribution of the information included in this message and any attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 157485

#### **CONDITIONS**

Operator:	OGRID:				
WPX Energy Permian, LLC	246289				
Devon Energy - Regulatory	Action Number:				
Oklahoma City, OK 73102	157485				
	Action Type:				
	[C-141] Release Corrective Action (C-141)				

#### CONDITIONS

C	Created By	Condition	Condition Date
	rhamlet	We have received your closure report and final C-141 for Incident #NAPP2227129446 NORTH BRUSHY DRAW FED 35-12H, thank you. This closure is approved.	2/1/2023