Page 6

Oil Conservation Division

Incident ID	nAPP2222750606
District RP	
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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.

<u>Closure Report Attachment Checklist</u> : Each of the following it	items must be included in the closure report.		
A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
\overline{X} Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)		
MA 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 re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in		
Printed Name: Jim Raley	Title: <u>Environmental Professional</u>		
Signature: Ar Role	Date:10/27/2022		
email:jim.raley@dvn.com	Telephone:575-689-7597		
OCD Only			
OCD Only			
Received by: Jocelyn Harimon	Date: <u>10/28/2022</u>		
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.		
Closure Approved by: <u>Robert Hamlet</u>	Date: <u>1/4/2023</u>		
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced		



 September 28, 2022
 Vertex Project #: 22E-02948

 Spill Closure Report:
 RDX Federal 17 #040H (Section 17, Township 26 South, Range 30 East)

 API: 30-015-43634
 County: Eddy

 Incident Report:
 nAPP2222750606

 Prepared For:
 WPX Energy Permian, LLC

 5315 Buena Vista Drive

New Mexico Oil Conservation Division - District 2 - Artesia 811 South 1st Street Artesia, New Mexico 88210

Carlsbad, New Mexico 88220

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 produced water dump line at RDX Federal 17 #040H, API 30-015-43634, Incident nAPP2222750606 (hereafter referred to as "RDX"). WPX provided spill notification to the New Mexico Oil Conservation District (NMOCD) District 2 and Bureau of Land Management (BLM), 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 32.0352088, W -103.9120606.

Background

The site is located approximately 14.51 miles southeast of Orla, Texas. The legal location for the site is Section 17, Township 26 South and Range 30 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, 2022a) 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 Potter-Simona complex. It tends to be well drained with high runoff and very low available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2020).

The surrounding landscape is associated with ridges, hills, plains, and alluvial fans at elevations of 2,750 to 5,000 feet above sea level. The climate is semi-arid, with an annual precipitation ranging between 8 to 16 inches. Historically, the plant community has grassland aspect, dominated by grasses with shrubs. Black grama is dominant with a mixture of creosotebush, mesquite, and catclaw mimosa shrubs. Overgrazing and extended drought can reduce grass cover.

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 of the New Mexico Administrative Code (NMAC), is the Pecos River located approximately 4.9 miles southwest of the vertex.ca

3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001

site (Google Earth Pro, 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 August 15, 2022, due to a pinhole leak developing on the load line in front of the water tanks. The spill was reported on August 15, 2022 and involved the release of approximately 10 barrels (bbl.) of produced water into the lined containment of the tank battery. Approximately 10 bbl. of free fluid was removed during initial spill clean-up. The NMOCD C-141 Report: nAPP2222750606 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 greater than 125 feet below ground surface (bgs) and 1.26 miles from the site. Documentation used in Closure Criteria Determination research is included in Attachment 3.

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WPX Energy Permian, LLC

RDX Federal 17 #040H, nAPP2222750606

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pill Coo	ordinates:	X: 32.0352088	Y: -103.9120606 Unit	
Site Spe	cific Conditions	Value		
1	Depth to Groundwater	125	feet	
2	Within 300 feet of any continuously flowing	22.070	fact	
2	watercourse or any other significant watercourse	22,970	feet	
	Within 200 feet of any lakebed, sinkhole or playa			
3	lake (measured from the ordinary high-water	20,329	feet	
	mark)			
4	Within 300 feet from an occupied residence,	29,778	faat	
4	school, hospital, institution or church	29,778	feet	
	i) Within 500 feet of a spring or a private, domestic			
	fresh water well used by less than five households	5,801	feet	
5	for domestic or stock watering purposes, or			
	ii) Within 1000 feet of any fresh water well or	5,801	feet	
	spring	5,801	leet	
	Within incorporated municipal boundaries or			
	within a defined municipal fresh water field		(Y/N)	
6	covered under a municipal ordinance adopted	No		
0	pursuant to Section 3-27-3 NMSA 1978 as	INO		
	amended, unless the municipality specifically			
	approves			
7	Within 300 feet of a wetland	343	feet	
8	Within the area overlying a subsurface mine	No	(Y/N)	
			Critical	
9	Within an unstable area (Karst Man)	Medium	High	
9	Within an unstable area (Karst Map)	weurum	Medium	
			Low	
10	Within a 100 years the structure			
10	Within a 100-year Floodplain	Undetermined	year	
		Potter -Simona		
11	Soil Type	complex		
12	Ecological Classification	Shallow		
13	Geology	Qoa		
		200		
			<50'	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'	
			>100'	

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WPX Energy Permian, LLC
RDX Federal 17 #040H, nAPP2222750606

Based on data included in the closure criteria determination worksheet, the release at RDX would not be 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
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

²Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) ³Benzene, toluene, ethylbenzene, and xylenes (BTEX)

Remedial Actions Taken

A site inspection of the spill area was completed on September 16, 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 September 12, 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, and the Liner Inspection Notification email is included in Attachment 4.

Closure Request

Vertex recommends no remediation action to address the release at RDX Federal 17 #040H. 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 nAPP2222750606 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 RDX Federal 17 #040H.

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WPX Energy Permian, LLC RDX Federal 17 #040H, nAPP2222750606

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

PROJECT MANAGER, REPORTING

September 30, 2022

Date

Attachments

Monica Peppin

- Attachment 1. NMOCD C-141 Report
- Attachment 2. Daily Field Report 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

References

- Water Column/Average Depth to Water Report. New Mexico Water Rights Reporting System, (2019). Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- Assessed and Impaired Waters of New Mexico. New Mexico Department of Surface Water Quality Bureau, (2019). Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb
- Interactive Geologic Map. New Mexico Bureau of Geology and Mineral Resources, (2019). Retrieved from http://geoinfo.nmt.edu
- Measured Distance from the Subject Site to Residence. Google Earth Pro, (2019). Retrieved from https://earth.google.com
- Point of Diversion Location Report. New Mexico Water Rights Reporting System, (2019). Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- Measured Distance from the Subject Site to Municipal Boundaries. Google Earth Pro, (2019). Retrieved from https://earth.google.com
- National Wetland Inventory Surface Waters and Wetland. United State Fish and Wildlife Service, (2019). Retrieved from https://www.fws.gov/wetlands/data/mapper.html
- *Coal Mine Resources in New Mexico*. NM Mining and Minerals Division, (2019). Retrieved from http://www.emnrd.state.nm.us/MMD/gismapminedata.html
- *New Mexico Cave/Karsts*. United States Department of the Interior, Bureau of Land Management, (2019) Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico
- Flood Map Number 35015C1875D. United States Department of Homeland Security, FEMA Flood Map Service Center, (2010). Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor
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- Soil Survey, New Mexico. United States Department of Agriculture, Soil Conservation Service in Cooperation with New Mexico Agricultural Experiment Station. (1971). Retrieved from http://www.wipp.energy.gov/library/Information_Repository_A/Supplemental_Information/Chugg%20et%20al% 201971%20w-map.pdf

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2022 Spill Assessment and Closure September 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 (WPX). 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.

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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 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	nAPP2222750606
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party WPX Energy Permain, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dvn.com	Incident # (assigned by OCD) nAPP2222750606
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0352088

Longitude <u>-103.9120606</u> (NAD 83 in decimal degrees to 5 decimal places)

Site Name RDX FEDERAL COM 17 #040H	Site Type Oil Well
Date Release Discovered 8/15/2022	API# (if applicable) 30-015-43634

Unit Letter	Section	Township	Range	County
А	17	26S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) 10 Volume Recovered (bbls) 10 Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Recovered (Mcf) Volume Released (Mcf) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Cause of Release: Pinhole leak developed on load line in front of water tanks. This allowed the release of approx. 10 bbls produced water to lined secondary containment. Fluids recovered.

Released Volume estimate = Recovered Volume as lined containment.

Page 2

If YES, for what reason(s) does the responsible party consider this a major release?		
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square 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.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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:8/15/2022	
email:jim.raley@dvn.com	Telephone: 575-689-7597	
OCD Only		
Received by:	Date:	

Page 3

Oil Conservation Division

	Page 12 of 0.
Incident ID	nAPP2222750606
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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?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 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 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 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 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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 wells.
- X Field data
- MA
 Data table of soil contaminant concentration data
- \underline{X} Depth to water determination
- X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- N/A Boring or excavation logs
- $\overline{\mathbf{X}}$ Photographs including date and GIS information
- MA Topographic/Aerial maps
- NA Laboratory data including chain of custody

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.

eceived by OCD: 10/27/2	2022 4:08:22 PM State of New Mexico			Incident ID	Page 13 of
		Oil Conservation Division			nAPP222750606
ige 4	Oil Conservation Division				
				Facility ID	
				Application ID	
regulations all operators are public health or the environ failed to adequately investi	Rig	otifications and c OCD does no rreat to ground of responsibili 	d perform co ot relieve the lwater, surfa ty for compl	prrective actions for rel e operator of liability sh ce water, human health liance with any other for mental Professional	eases which may endanger nould their operations have n or the environment. In
OCD Only Received by: Jocely	n Harimon	_ D	ate: <u>10/28</u>	3/2022	

Oil Conservation Division

	Page 14 of 6.
Incident ID	nAPP2222750606
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.

<u>Closure Report Attachment Checklist</u>: Each of the following i	tems must be included in the closure report
	-
A scaled site and sampling diagram as described in 19.15.29.1	I NMAC
	of the liner integrity if applicable (Note: appropriate OCD District office
must be notified 2 days prior to liner inspection)	
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
	te to the best of my knowledge and understand that pursuant to OCD rules n 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
	mediate contamination that pose a threat to groundwater, surface water,
human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula	
restore, reclaim, and re-vegetate the impacted surface area to the co	
accordance with 19.15.29.13 NMAC including notification to the C	OCD when reclamation and re-vegetation are complete.
Printed Name: Jim Raley	Title: Environmental Professional
Signature:	Date: 10/27/2022
email:jim.raley@dvn.com	Telephone:575-689-7597
OCD Only	
Received by: Jocelyn Harimon	Date: 10/28/2022
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
party of compliance with any other federal, state, or local laws and/	or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

ATTACHMENT 2



Client:	Devon Energy Corporation	Inspection Date:	9/16/2022
Site Location Name:	RDX Federal 17 #040	Report Run Date:	9/16/2022 6:12 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	9/16/2022 10:13 AM		
Departed Site	9/16/2022 10:28 AM		
		Field Not	es

10:13 Arrived on site surveyed liner

10:16 Surveyed tank battery for potential breach

10:27 No signs of potential breach

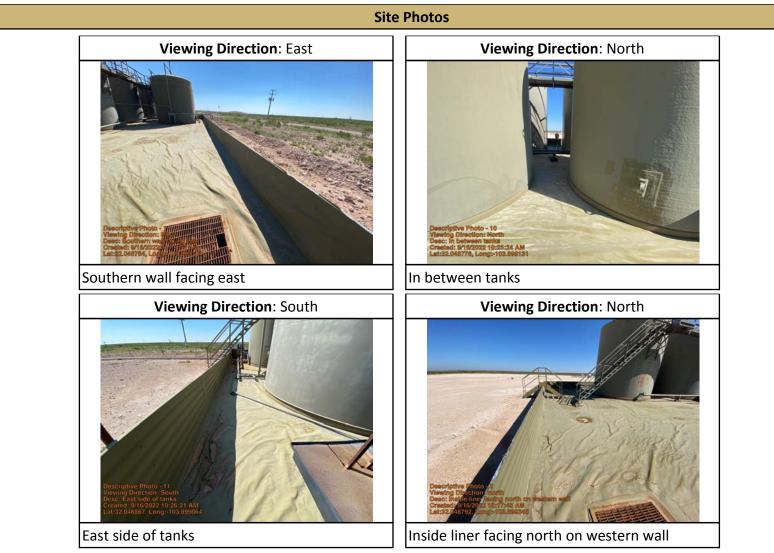
10:27 Liner was cleaned

Next Steps & Recommendations

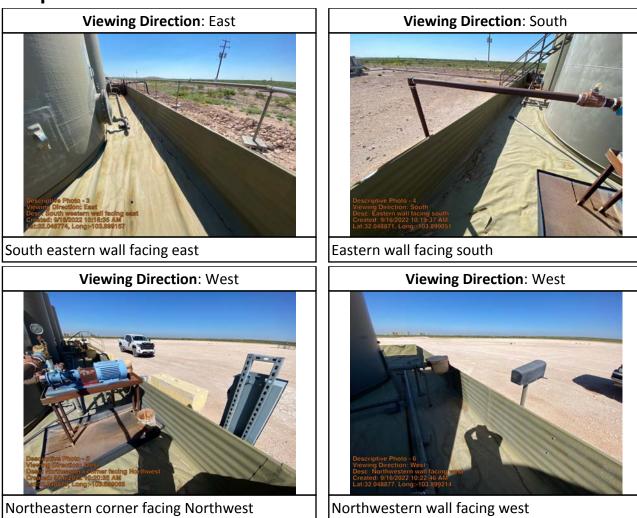
1 Closer report



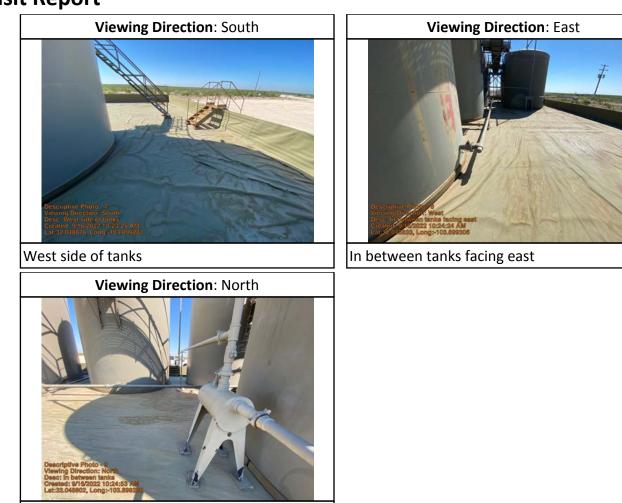












In between tanks



Daily Site Visit Signature

Inspector: Jacob Reta

Signature:

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ATTACHMENT 3



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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PAGE 1 OF 2

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ANNULAR MATERIAL	n/a	n/a	n/a			n/a			n/a		n/a		
IAT									· · ·				
RM													
[Y]	· · ·						···· ,						
INI													
З.													
								······					
FOR	OSE INTER	NAL US	Ē					WR-2	0 WELL RECORD	& LOG (Ver	sion 10/29	9/15)	
FILE	NUMBER	C.	Solat -		POD N	UMBER	1	TRN	NUMBER (C	06-	777	7	

·3·

<u>110-</u>

<u>265.</u>

308

LOCATION

•

	DEPTH (FROM	DEPTH (feet bgl) THICKNESS FROM TO (feet) (feet) COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)					TER JING? / NO)	ESTIM YIELD WAT BEAR ZONES	FOR ER- RING
	0	5	5	white caliche small gravel		Y	 √ N		
	5	20	15	light brown fine sand with small gravel		Y	_•		
	20	40	20	tan sand, medium gravel, sandstone	-,	Y	√ N		
	40	50	10	white tannish sand/sandstone		Y			
	50	90	40	tannish very fine sandstone	^	Y	✓ N		
L	90	110	20	fine reddish tan sandstone		Y	✓ N		
VELI	110	125	15	fine reddish sandstone with small layers of reddish clay		Y	 ✓ N		
OF W						Y	N		
4. HYDROGEOLOGIC LOG OF WELL		······				Y	N		
CLC						Y	N		
OGI						Y	N		
EOL						Y			
[DO]	······					Y	- <u></u> N		
YDR					,	Y	N		
4. H						Y	N		رد اورون (مورد میش ۱۹۹۹ - میرون (مورد میش ۱۹۹۹ - میرون میشود ۱۹۹۹ - میرون میشود اورون
	,,,,,,					Y	N		
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							N	1 10 1 	
	<u> </u>					Y	N	 	
				······································		Y	N		
						Y	N	(j), j) (j), j)	
				OF WATER-BEARING STRATA:		AL ESTIM LL YIELD		0.0	0
	PUMI	<u>Ч</u> А	IR LIFT	BAILER OTHER – SPECIFY:			(86)	0.0	
NOISI	WELL TEST	TEST STAR	RESULTS - ATTA I TIME, END TIM	CH A COPY OF DATA COLLECTED DURING WELL TESTING, IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN	INCLUDI OVER TH	NG DISCH E TESTIN	- IARGE M G PERIC	METHOD, D	
TEST; RIG SUPERVIS	MISCELLANEOUS INFORMATION: Log adapted from Souder Miller & Associates oversight. Boring to determine presence/absence of water. Boring advanced with combination of air rotary and hollow stem auger tooling. No water encountered. Boring not converted to well. Boring abandoned see plugging record.								
EST	PRINT NAM	E(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL C	ONSTRU	CTION 01	HER TH	AN LICE	NSEE:
5. T			ba, Shane Eldrid						
SIGNATURE	CORRECT R	ECORD OI	F THE ABOVE DE	ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND B ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WEL DAYS AFTER COMPLETION OF WELL DRILLING:	ELIEF, TH L RECOR	IE FOREG D WITH T	OING IS HE STA	A TRUE A TE ENGIN	AND IEER
6. SIGN/									
		SIGNAT	JRE OF DRILLER	t / PRINT SIGNEE NAME			DATE		
FOR	OSE INTERN	AL USE			WELL REG	CORD & 1	. <u>OG (</u> Ver	sion 10/29	/2015)
	E NUMBER	-C	-4067	ζ POD NUMBER TRN NU		60	07	27	
LOC	CATION		SANT	11010.301	FX	$\mathcal{D}I$		PAGE 2	OF 2

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Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

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STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 606777 File Nbr: C 04068 Well File Nbr: C 04068 POD1

Jun. 12, 2017

JUSTIN BARMORE RKI EXPLORATION AND PRODUCTION LLC 3500 ONE WILLIAMS CENTER MD 35 TULSA, OK 74172

Greetings:

The above numbered permit was issued in your name on 05/08/2017.

The Well Record was received in this office on 05/17/2017, stating that it had been completed on 05/12/2017, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/15/2018.

If you have any questions, please feel free to contact us.

Sincerely,

Deborah Dunaway (575) 622 - 6521

drywell

Released to Imaging: 1/4/2023 2:58:58 PM

Received by OCD: 10/27/2022 4:08:22 PM RDX Federal Com 17 #040H

1.

Med .

0.5 Mile Radius Nearest DTGW Well: C04068POD1 Distance: 1.26 miles DTGW: 125 feet Legend^{25 of 61}



1 km

- 1

1.0

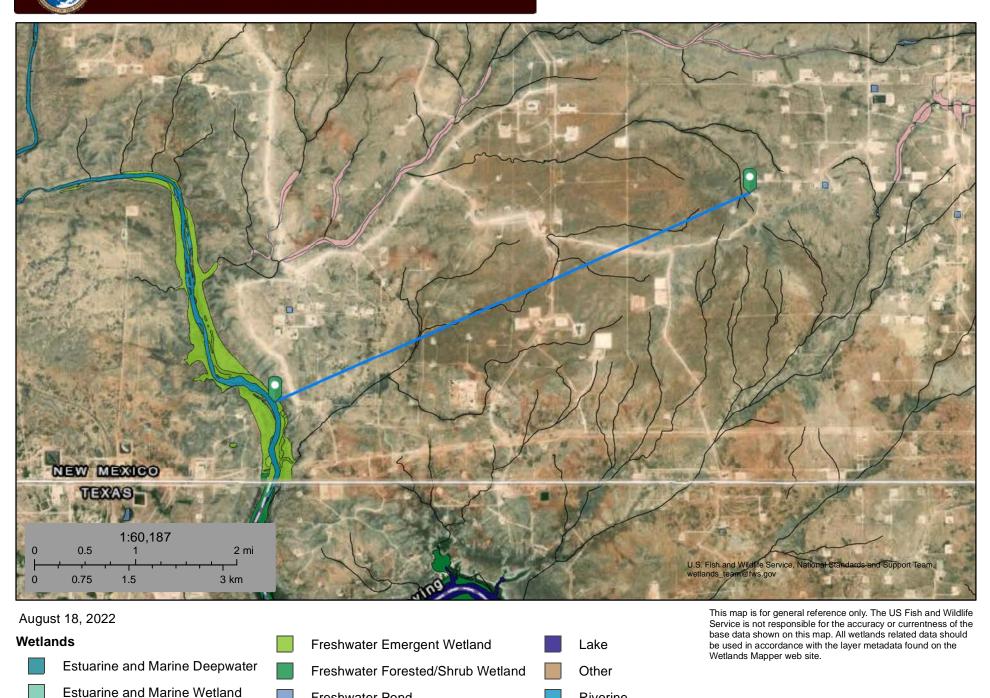
RDX Federal Com 17 #040H



U.S. Fish and Wildlife Service

National Wetlands Inventory

RDX Federal Com 17 #040H



Riverine

Freshwater Pond

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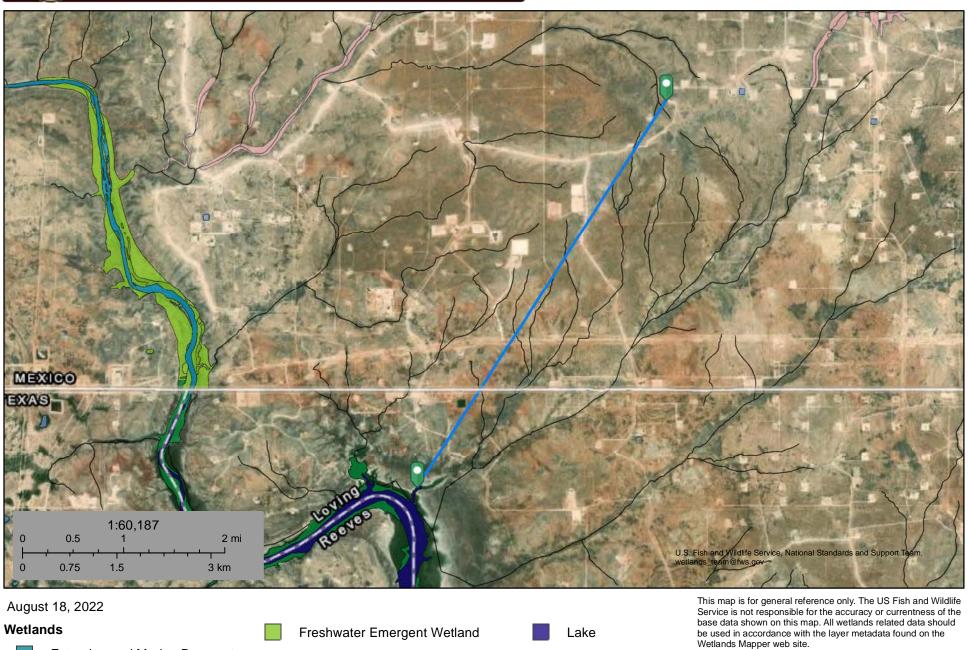
National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Page 26 of 61

U.S. Fish and Wildlife Service

National Wetlands Inventory

RDX Federal Com 17 #040H



Other

Riverine

Freshwater Forested/Shrub Wetland

Freshwater Pond

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

Released to Imaging: 1/4/2023 2:58:58 PM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Received by OCD: 10/27/2022 4:08:22 PM RDX Federal Com 17 #040H

Nearest Residence: 5.64 miles (29,778 feet)

726

R360 - Red Bluff

LegendPage 28 of 61Feature 1R360 - Red Bluff

RDX Federal Com 17 #040H

NEW MEXICO

W Alan Co

Residence

453

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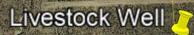
Received by OCD: 10/27/2022 4:08:22 PM, RDX Federal Com 17 #040H

Distance to Livestock Well: 1.10 miles (5,801 feet)



1 1

RDX Federal Com 17 #040H



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A N



WR File Number:	C 03792	Subbasin: C	Cross Reference: -
Primary Purpose:	STK 72-12-1 LIV	ESTOCK WATERING	
Primary Status:	PMT PERMIT		
Total Acres:		Subfile: -	Header: -
Total Diversion:	3	Cause/Case: -	
Agent:	BECKHAM RANCH	INC	
Contact:	M STAPLETON LLC	2	
Current Points of Diversion POD Number Well ⁷ <u>C 03792 POD1</u>	Q Tag Source 64Q16Q 1 1 1	(NAD83 UTM 4Sec Tws Rng X 29 26S 30E 602880	in meters) Y Other Location Desc 3543094

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.

8/18/22 2:22 PM

WATER RIGHT SUMMARY

Received by OCD: 10/27/2022 4:08:22 PM RDX Federal Com 17 #040H

Nearest Town: Orla, Texas Distance:14.51 miles (76,603 feet)



TEXAS

Sam

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No.

10 km

Peros Rive

RDX Federal Com 17 #040H

285

285

Orla

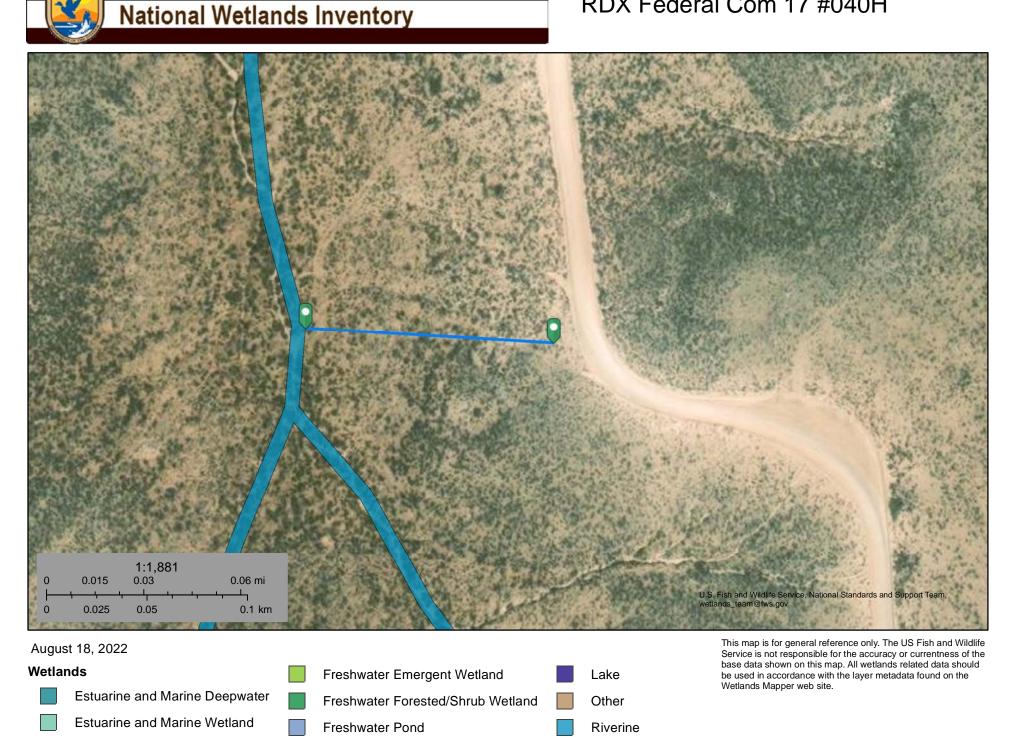
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TEXAS.



U.S. Fish and Wildlife Service

RDX Federal Com 17 #040H

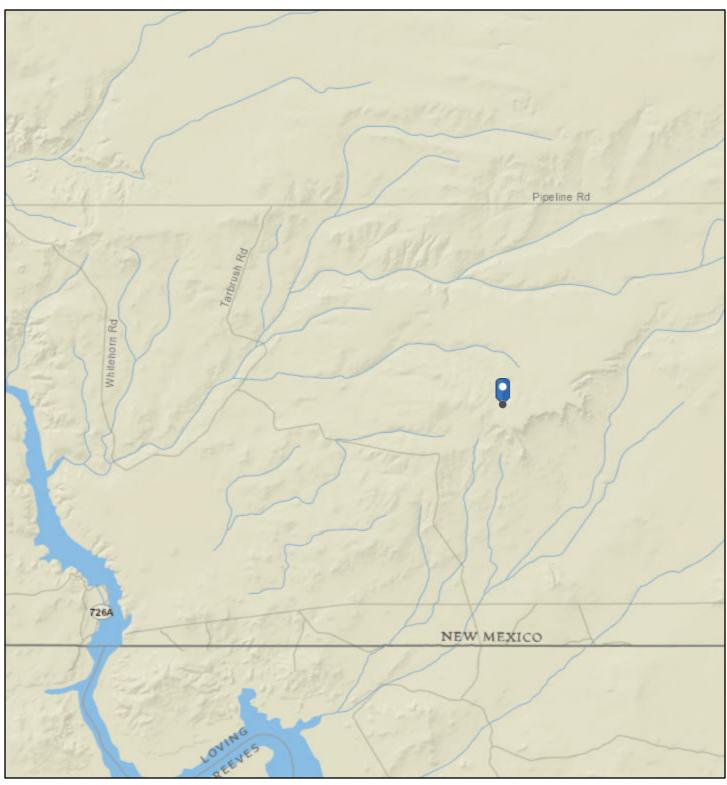


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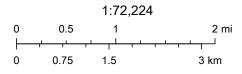
National Wetlands Inventory (NWI) This page was produced by the NWI mapper

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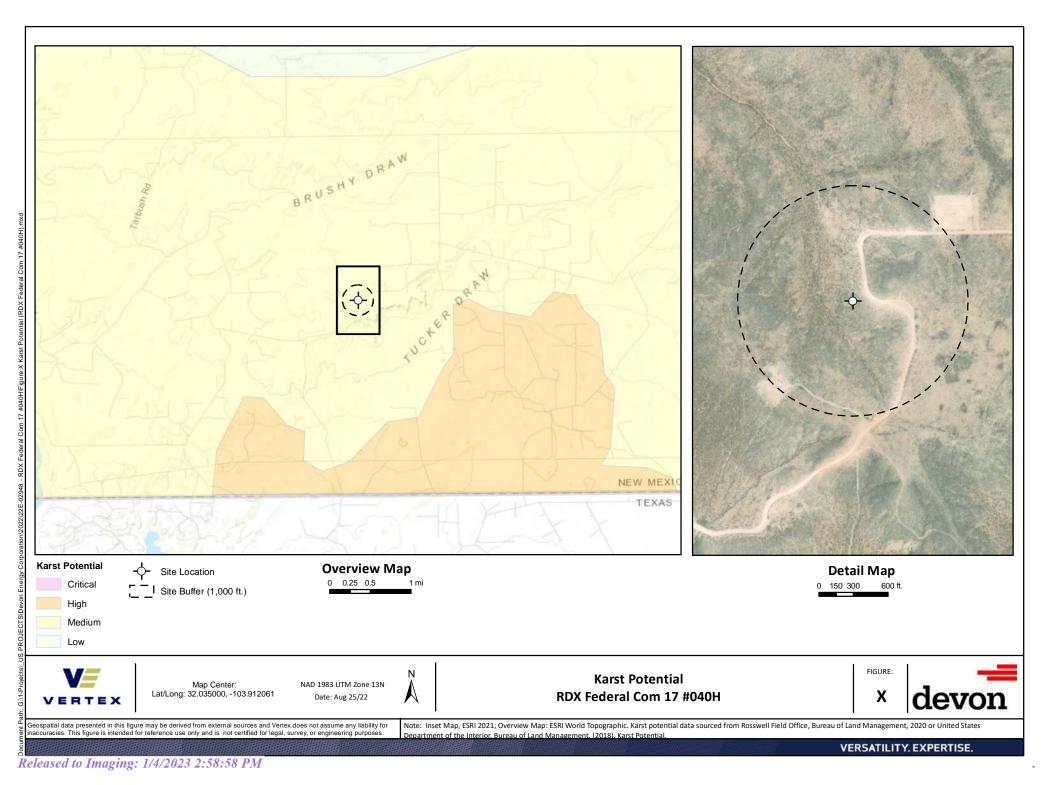
RDX Federal Com 17 #040H



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

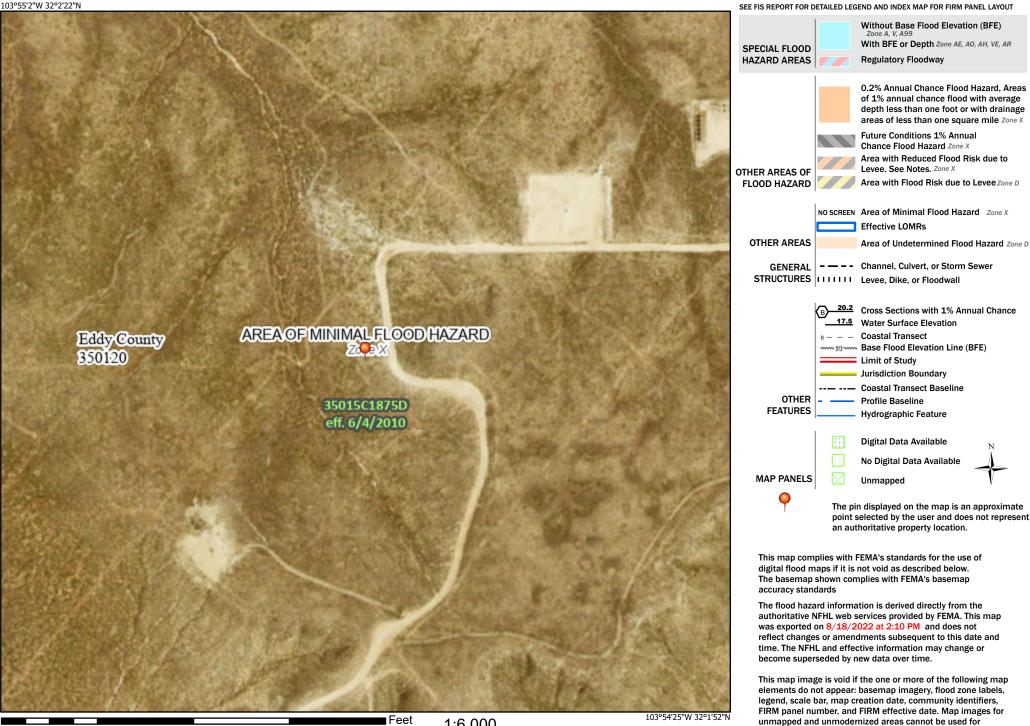


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Legend

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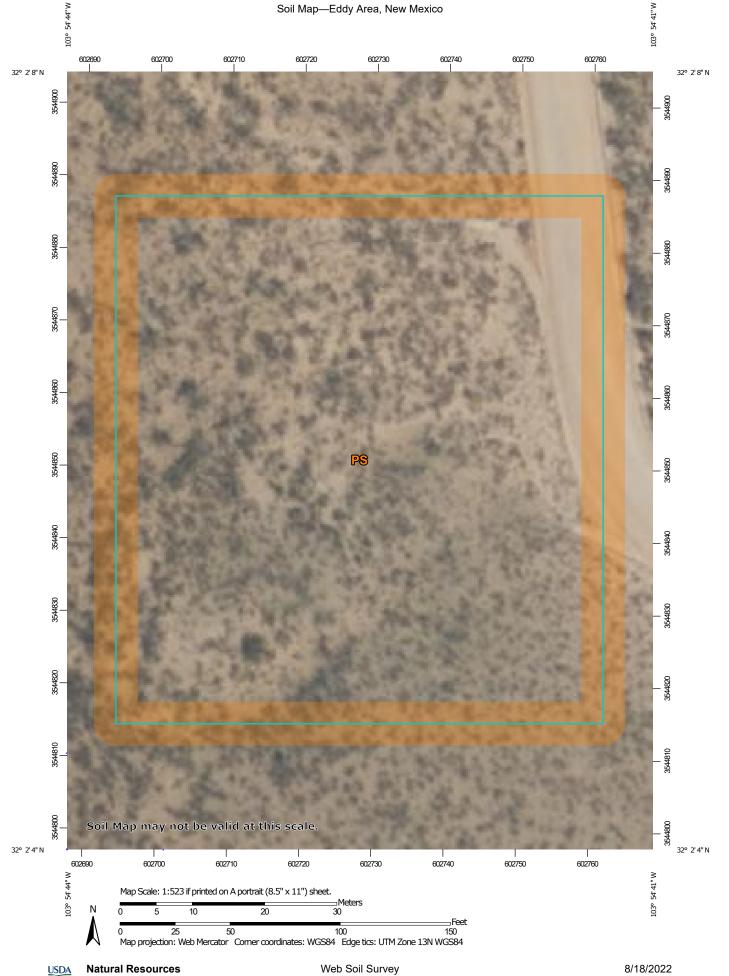
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Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

regulatory purposes.

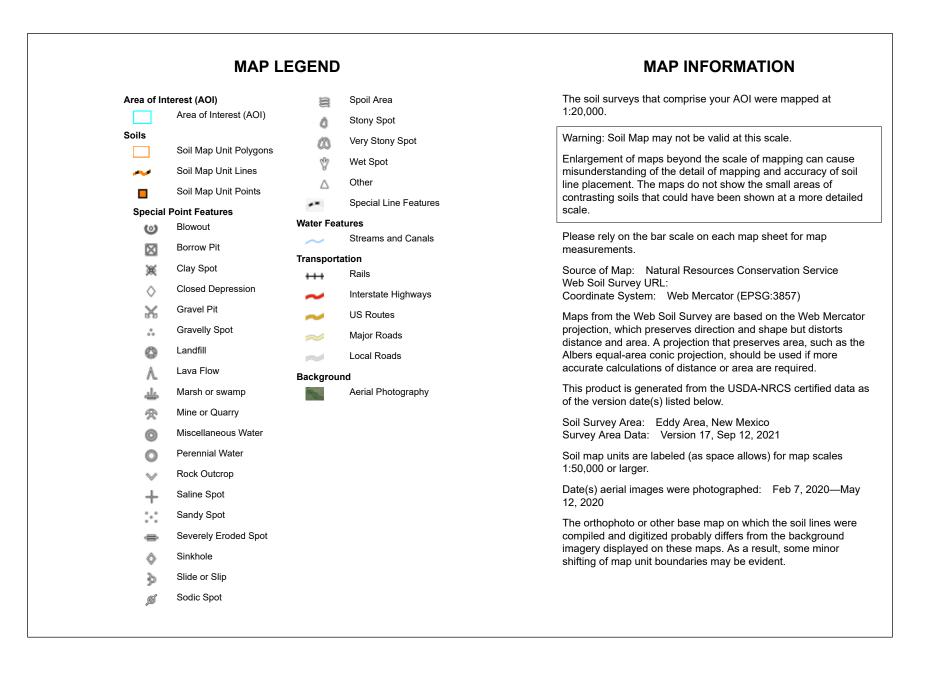
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Web Soil Survey National Cooperative Soil Survey

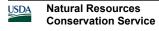
8/18/2022 Page 1 of 3





Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PS	Potter-Simona complex, 5 to 25 percent slopes	1.2	100.0%
Totals for Area of Interest		1.2	100.0%



Eddy Area, New Mexico

PS—Potter-Simona complex, 5 to 25 percent slopes

Map Unit Setting

National map unit symbol: 1w57 Elevation: 2,750 to 5,000 feet Mean annual precipitation: 8 to 16 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 230 days Farmland classification: Not prime farmland

Map Unit Composition

Potter and similar soils: 80 percent Simona and similar soils: 15 percent Minor components: 5 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Potter

Setting

Landform: Ridges, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope Down-slope shape: Convex Across-slope shape: Linear Parent material: Alluvium

Typical profile

H1 - 0 to 10 inches: gravelly loam H2 - 10 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 60 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R042XC025NM - Shallow Hydric soil rating: No

Description of Simona

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 11 inches: gravelly fine sandy loam H2 - 11 to 19 inches: gravelly fine sandy loam H3 - 19 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 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 2.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: D Ecological site: R042XC002NM - Shallow Sandy Hydric soil rating: No

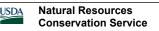
Minor Components

Simona

Percent of map unit: 3 percent Ecological site: R042XC002NM - Shallow Sandy Hydric soil rating: No

Rock outcrop

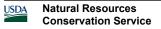
Percent of map unit: 2 percent



Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 17, Sep 12, 2021



UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

ECOLOGICAL SITE DESCRIPTION

ECOLOGICAL SITE CHARACTERISTICS

Site Type:	Range	
Site ID:	R042XC025NM	
Site Name:	Shallow	
Precipitation	or Climate Zone:	10 to 13 inches
Phase:		

PHYSIOGRAPHIC FEATURES

Narrative: This site occurs on upland plains, fans and mesas, or between toe slopes of desert hills and drainage ways. Slopes range fro 0 to 15 percent. Direction of slope varies and is usually not significant. Elevations range from 2,842 to 4,500 feet. Land Form: 1. plain 2. fan 3. mesa Aspect: 1. Not signifant 2. 3. Minimum Maximum Elevation (feet) 2,842 4,500 Slope (percent) 0 15 Water Table Depth (inches) N/A N/A Flooding: Minimum Maximum Frequency N/A N/A Duration Ponding: Minimum Maximum Depth (inches) N/A N/A Frequency Duration **Runoff Class:** Negligible 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 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. Because of the shallow soil depth, the vegetation on this site can take advantage of moisture almost anytime it falls. Strong winds that blow from the west and southwest blow from January through June, which accelerates soil drying at 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 (⁰F) distribution:

	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 Stations:

- (1) NM0600, Artesia, NM Period of record 1961 1990
- (2) NM0992, Bitter Lakes WL Refuge, NM Period of record 1961 1990
- (3) NM1469, Carlsbad, NM Period of record 1961 1990
- (4) NM293792, Hagerman, NM Period of record 1961 1990
- (5) NM299563, Waste Isolation Plant, NM Period of record 1961 1990
- (2) NM4346, Jal, NM Period of record 1961 1990

INFLUENCING WATER FEATURES

Narrative:

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 shallow to very shallow. Surface layers are stony silty clay, gravelly loam and gravelly fine sandy loam. There is an indurated caliche layer of limestone bedrock that occurs within 20 inches and averages less than 10 inches. Permeability is moderate and moderately rapid and water holding capacity is low. All water is stored above the caliche layer in the shallow soil profile. Characteristic soils are: Delnorte very gravelly loam Lozier gravelly loam 0 to 5 percent slopes Potter gravelly loam Tencee gravelly fine sandy loam Upton gravelly loam Vieja stony silty clay Kimbrough gravelly loam

Parent Material Kind:	Alluvium
Parent Material Origin:	Mixed

Surface Texture:

1.	gravelly loam
2.	gravelly fine sandy loam
3.	stony silt clay

Surface Texture Modifier:

1.	gravel
2.	
3.	

Subsurface Texture Group:	N/A
Surface Fragments <=3" (% Cover):	15 - 40
Surface Fragments >3" (% Cover):	N/A
Subsurface Fragments <=3" (%Volume):	13 - 42
Subsurface Fragments >=3" (% Volume):	0 - 1

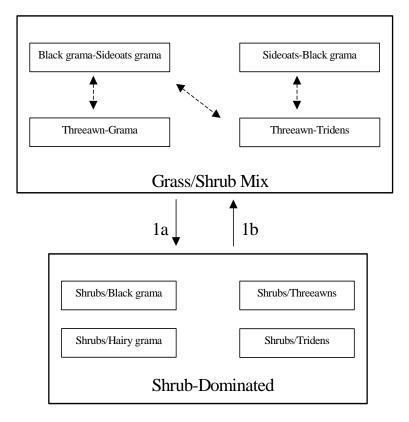
	Minimum	Maximum
Drainage Class:	Well	Well
Permeability Class:	very slow	moderately slow
Depth (inches):	4	24
Electrical Conductivity (mmhos/cm):	0	2
Sodium Absorption Ratio:	N/A	N/A
Soil Reaction (1:1 Water):	7.4	8.4
Soil Reaction (0.1M CaCl2):	N/A	N/A
Available Water Capacity (inches):	1	1
Calcium Carbonate Equivalent (percent):		

Ecological Dynamics of the Site:

Overview

The Shallow site is associated with and Limestone Hills, Loamy, and Shallow Sandy sites. When associated with Limestone Hills, the Shallow site occurs on the summits, foot slopes and toeslopes of hills. Loamy sites often occur as areas between low elongated hills with rounded crests (Shallow site). When the Shallow Sandy site and Shallow site occur in association, the Shallow Sandy soils occupy the tops of low ridges and the Shallow site soils occur on the steeper sideslopes of the ridge. The historic plant community of the Shallow site has the aspect of a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black grama is the dominant grass species; creosotebush, mesquite, and catclaw mimosa are common shrubs. Overgrazing and or extended drought can reduce grass cover, effect a change in grass species dominance, and may result in a shrub-dominated state. Suppression of natural fire regimes may also facilitate the transition to shrub dominance.¹

Plant Communities and Transitional Pathways (diagram)



MLRA-42, SD-3, Shallow

1a. Extended drought, overgrazing, no fire

1b. Brush control, Prescribed grazing

Plant Communities Photo Display & Descriptive Diagnosis

MLRA 42; SD-3; Shallow

Grass/Shrub mix





Shrub-Dominated

•Grass recovery following treatment with tebuthiuron •Transition back to Grass/Shrub mix

•Threeawns-black grama community





•Creosotebush-catclaw mimosa, with some broom snakeweed and a few scattered mesquite •Grass cover (hairy tridens-black grama) patchy, large connected bare areas present •Upton gravelly loam, Eddy Co., NM

Plant Community Name:	Historic Cli	imax Plant Co	ommunity	
Plant Community Sequence N	Number:	1	Narrative Label:	НСРС

Plant Community Narrative:

State Containing Historic Climax Plant Community

Grassland/Shrub Mix: The historic plant community is dominated by black grama with sideoats grama as the sub-dominant. Blue grama, hairy grama, bush muhly, and sand dropseed also occur in significant amounts. Sideoats grama can occur as the dominant grass with black grama as sub-dominant on the western side of the Land Resource Unit SD-3. This may be due to higher average elevation on the west side. Retrogression within this state due to extended drought or overgrazing will cause a decrease in species such as black grama, sideoats grama, blue grama, and bush muhly. Threeawns may become the dominant grass species due to a decline in more palatable grasses or because of its ability to quickly recover following drought. Continued loss of grass cover and associated increase in amount of bare ground may result in a shrub-dominated state. Decreased fire frequencies may also be an important component in the cause of this transition.

Diagnosis: Grass cover is fairly uniform, however, surface gravel, cobble, and bare ground make up a large percent of total ground cover, and grass production during unfavorable years may only average 150-175 pounds per acre. Shrubs are common with canopy cover averaging five to ten percent. Evidence of erosion such as rills and gullies are rare, but may occur on slopes greater than eight percent.

Ground Cover (Aveage Percent of Surface Area).

Grasses & Forbs	10-15
Bare ground	40 - 60
Surface cobble and stone	15 - 25
Litter (percent)	5 - 8
Litter (average depth in cm.)	2 - 3
Percent canop	by cover (trees, shrubs, and half-shrubs
Trees	0
Shrubs and half -shrubs	5 - 10

Plant Community Annual Production (by plant type):

Annual Production (lbs/ac)								
Plant Type	Low	RV	High					
Grass/Grasslike	168	352	536					
Forb	20	42	64					
Tree/Shrub/Vine	63	131	200					
Lichen								
Moss								
Microbiotic Crusts								
Totals	250	525	800					

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

Flain Type	- 01855/0185	SIIKE		
Group	Scientific		Species	Group
Number	Plant	Common Name	Annual	Annual
	Symbol		Production	Production
1	BOER4	black grama	105 - 158	105 - 158
2	BOCU	sideoats grama	79 - 105	79 - 105
3	BOGR2	blue grama	79 - 105	79 - 105
3	BOHI2	hairy grama		
4	MUPO2	bush muhly	26 - 53	26 - 53
5	BOBA3	cane bluestem	16 - 26	16 - 26
6	SPCR	sand dropseed	26 - 53	26 - 53
7	ERPI5	hairy tridens	16 - 26	16 - 26
8	MUAR	ear muhly	5 - 16	5 - 16
9	HENE5	New Mexico feathergrass	5 - 16	5 - 16
10	DAPU7	fluffgrass	5 – 16	5 - 16
11	2GP	other grasses	16 - 26	16 – 26

Plant Type - Grass/Grasslike

Plant Type - Tree/Shrub/Vine

Group	Scientific		Species	Group
Number	Plant	Common Name	Annual	Annual
	Symbol		Production	Production
18	RHMI3	littleleaf sumac	5 - 16	5 – 16
19	LATR2	cresostebush	5 - 16	5 - 16
20	KRER	range ratany	5 - 16	5 - 16
21	MIERX	common javalinabush	5 - 16	5 - 16
22	FLCE	American tarbush	5 - 16	5 - 16
23	KOSP	spiny allthorn	5 - 16	5 – 16
24	PRGL2	mesquite	11 - 26	11 - 26
25	MIACB	catclaw mimosa	5 - 16	5 - 16
26	OPUNT	cactus	5 - 16	5 - 16
27	PAIN2	mariola	11 - 26	11 - 26
28	GUSA2	broom snakeweed	5 - 16	5 - 16
29	2SHRUB	other shrubs	16 - 26	16 - 26

Plant Type	- Forb			
Group	Scientific		Species	Group
Number	Plant	Common Name	Annual	Annual
	Symbol		Production	Production
12	TEACE	stemless actinea	11 - 26	11 - 26
13	PACAL5	wooly groundsel	5 - 16	5 - 16
14	SPHAE	globemallow	5 - 16	5 - 16
15	LESQU	bladderpod	5 - 16	5 - 16
16	CASSI	Senna	5 - 16	5 - 16
17	2FORB	other forbs	11 - 26	11 - 26

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

Other grasses that could appear on this site would include: vine-mesquite, silver bluestem, burrograss, spike dropseed, threeawns, tobosa, muhlys, Arizona cottontop and plains bristlegrass

Other woody plants include: condalia, tesajo cactus, Apacheplume, wolfberry, cactus, ephedra spp., yucca, witerfat and fourwing saltbush.

Other forbs include: desert zinnia, wolly paperflower, prickleaf dogweed, verbena, deerstongue, croton and wright's buckwheat.

Plant G	Growth C	Curves										
Growth Curve ID				N	M2825							
Growth Curve Name: HCPC					CPC							
Growth Curve Description:			ion:	SI	D-3 Shal	low HC	PC Warı	m Season	n Plant C	Commun	ity	
Jan.	Feb.	March	Apri	il	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
0	0	3	5	10 10 25 30 12 5 0					0			
Additional States:												

<u>Shrub-Dominated</u>: This state is characterized by an increase in shrubs and a decrease in grass cover relative to grassland/shrub mix. As grass cover decreases shrubs increase, especially creosotebush, catclaw mimosa, whitethorn acacia, and mesquite. Each of these shrub species may become dominant in localized areas or across the site, depending on the spatial variability in soil characteristics and landscape position. Black grama, threeawns, hairy grama, or hairy tridens may be the dominant grass species. Fluffgrass, burrograss and broom snakeweed increase in representation. The Shallow site is resistant to further state change, due to the natural rock armor of the soil and a shallow impermeable layer. The amount of rock fragments on the soil surface assist in retarding erosion. On Shallow sites with low slope, the shallow depth to either a petrocalcic layer or limestone bedrock helps to keep water perched and available to shallow rooted grasses for extended periods.²

<u>Diagnosis</u>: Shrubs are the dominant species, especially creosotebush, catclaw mimosa, whitethorn acacia, or mesquite. Grass cover is variable ranging from patchy with large connected bare areas present to sparse with only a limited amount in shrub inter-spaces.

Transition to Shrub-Dominated (1a) Overgrazing and or extended periods of drought, and suppression of natural fire regimes are thought to cause this transition. As grass cover is lost, soil fertility and available soil moisture decline, due to the reduction of organic matter and decreased infiltration.³ Shrubs have the ability to extract nutrients and water from a greater area of soil than grasses and are better able to utilize limited water. Competition by shrubs for water and nutrients limits grass recruitment and establishment. Fire historically may have played a part in suppressing shrub expansion; fire suppression may therefore facilitate shrub expansion.

Key indicators of approach to transition:

- Decrease or change in composition or distribution of grass cover.
- Increase in size and frequency of bare patches.
- Increase in amount of shrub seedlings.

Transition back to Grassland/Shrub Mix (1b) Brush control is necessary to re-establish grasses. Prescribed grazing will help to ensure proper forage utilization and sustain grass cover. Once the transition is reversed and grass cover is re-established, prescribed fire might help in maintaining the Grassland/Shrub state.

ECOLOGICAL SITE INTERPRETATIONS

Animal Community:

This site provides habitats which support a resident animal community that is characterized by desert cottontail, spotted ground squirrel, Merriam's kangaroo rat, cactus mouse, white-throated woodrat, gray fox, spotted skunk, roadrunner, Swainson's hawk, white-necked raven, cactus wren, pyrrhuloxia, lark sparrow, mourning dove, scaled quail, leopard lizard, round-tailed horned lizard, prairie rattlesnake, Couch's spadefoot toad, marbled whiptail, and greater earless lizard.

Where associated with limestone hills, mule deer utilize this site. Where large woody shrubs occur, most resident birds and scissor-tailed flycatcher, morning dove, lark sparrow and Swainson's hawk nest.

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					
Delnorte	С					
Lozier	D					
Potter	С					
Tencee	D					
Upton	С					
Kimbrough	D					
Vieja	D					

Recreational Uses:

This site offers recreation potential for hiking, horseback riding, rock hunting, nature photography and bird hunting and birding. During years of abundant spring moisture, a colorful array of wild flowers is displayed during May and June. A few summer and fall flowers also occur.

Wood Products:

This site has no potential for wood production.

Other Products:

This site is suited for grazing by all kinds and classes of livestock during all seasons of the year. Missmanagement will cause a decrease in black grama, sideoats grama, and blue grama, bush muhly and New Mexico feathergrass. A corresponding increase in bare ground will occur. There will also be an increase in muhlys, fluffgrass, creosotebush, javalinabush and mesquite. This site will respond best 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	3.7 – 4.5
75 – 51	4.3 – 5.5
50 - 26	5.3 - 10.0
25 - 0	10.1 +

	Code	Species	Prefer	ence			C	ode							
Stems	S	None Selected			N	N/S									
Leaves	L	Preferre					-	Р							
Flowers	F	Desirab						D							
Fruit/Seeds	F/S	Undesir					U								
Entire Plant	EP UP	Not Con					N E								
Underground Parts	UP	Emerge Toxic	ncy				T								
Animal Kind:	Livestock	TOXIC					1								
Animal Type:	Cattle														
		Plant					Fora	ge Pi	efere	ences					
Common Name	Scientific Name	Part	J	F	М	Α	М	J	J	Α	S	0	N	D	
black grama	Bouteloua eriopoda	EP	Р	Р	Р	D	D	D	D	D	D	D	Р	Р	
sideoats grama	Bouteloua	EP	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	
grande grande	curtipendula														
blue grama	Bouteloua gracilis	EP	D	D	D	D	Р	Р	Р	Р	Р	D	D	D	
hairy grama	Bouteloua hirsuta	EP	D	D	D	D	Р	Р	Р	Р	Р	D	D	D	
bush muhly	Muhlenbergia porterti	EP	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	
cane bluestem	Bothriochloa	EP	U	U	U	U	U	U	Р	Р	D	U	U	U	
	barbinodis														
sand dropseed	Sporobolus	EP	U	U	U	D	D	D	D	D	D	U	U	U	
	cryptandrus														
globemallow	Sphaeralcea	EP	N/S	N/S	N/S	D	D	D	D	D	Р	Р	Р	N/S	
bladderpod	Lesquerella	EP	N/S	N/S	D	D	D	D	N/S	N/S	N/S	N/S	N/S	N/S	
Senna	Cassia L.	EP	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	
cresostebush	Larrea tridentata	L	U	U	U	U	U	U	U	U	U	U	U	U	
common	Microrhamnus	EP	U	U	U	U	U	U	U	U	U	U	U	U	
javalinabush	eridoides														
American tarbush	Flourensia cernua	EP	U	U	U	U	U	U	U	U	U	U	U	U	
mesquite	Prosopis glandulosa	EP	U	U	U	U	U	U	U	U	U	U	U	U	
catclaw mimosa	Mimosa aculeaticarpa		U	U	U	U	U	U	U	U	U	U	U	U	
cactus	opuntia sp.	EP	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	
mariola	Parthenium incanum	EP	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	
broom snakeweed	Gutierrezia sarothrae	L/F	U	U	U	U	U	Т	Т	U	U	U	U	U	

Plant Preference by Animal Kind:

Supporting Information

Associated Sites: Site Name	Site ID	Site Narrative						
<u>Similiar Sites:</u> <u>Site Name</u>	Site ID	Site Narrative						
State Correlation: This site has been correlated with the following states: Texas								

	Number of			
Data Source	Records	Sample Period	<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 (SD-3). This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Characteristic soils are:

Delnorte very gravelly loam	Lozier gravelly loam 0-5% slope Potter gravelly loam		
Tencee gravelly fine sandy loam	Upton gravelly loam	Vieja stony silty clay	
Kimgrough gravelly loam			

1. Humphrey, R.R. 1974. Fire in the deserts and desert grassland of North America. In: Kozlowski, T. T.; Ahlgren, C. E., eds. Fire and ecosystems. New York: Academic Press: 365-400.

2. Hennessy, J.T., R.P. Gibbens, J.M. Tromble, and M. Cardenas. 1983. Water properties of caliche. J. Range Manage. 36: 723-726.

3. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheets. Rangeland Soil Quality—Infiltration, Organic Matter, Rangeland Sheets 5,6. [Online]. Available: http://www.statlab.iastate.edu/survey/SQI/range.html

Site Description Approval: Author Date Approval Date 07/12/1979 Don Sylvester 07/12/1979 Don Sylvester Site Description Revision: Author Approval Date Date David Trujillo 03/26/03 George Chavez 03/26/03

Received by OCD: 10/27/2022 4:08:22 PM

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RDX Federal Com 17 #040H

Qoa Qoa Qoa Qoa Qoa Qoa Qep Qoa Pr Qe Qoa Parr Qa Оa Qoa Pgm 285 REEVES COUNTY Red Bluff Reservoir

8/18/2022, 3:42:55 PM

Lithologic Units

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

Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data;

ATTACHMENT 4

Monica Peppin

From:	Dhugal Hanton <vertexresourcegroupusa@gmail.com></vertexresourcegroupusa@gmail.com>	
Sent:	September 12, 2022 3:16 PM	
То:	Enviro, OCD, EMNRD; CFO_Spill, BLM_NM	
Cc:	Raley, Jim; Monica Peppin	
Subject:	Multiple Liner Inspections 48-HR Notification	

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled multiple liner inspections to be conducted for the following releases:

nAPP2222130109 DOR: 8/8/2022 Site Name: RDX 17 Federal #035H

nAPP2222750606 DOR: 8/15/2022 Site Name: RDX 17 Federal #040H

nAPP2218938856 DOR: 7/7/2022 Site Name: RDX 17 Federal #010H

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

On Friday, September 16, 2022 at approximately 8:00 a.m., Jacob Reta will be on site to conduct liner inspections. He can be reached at 505-506-0040. If you need directions to the site, please do not hesitate to contact him. 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

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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

District IV

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

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	154497
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition

We have received your closure report and final C-141 for Incident #NAPP2222750606 RDX FEDERAL COM 17 #040H, thank you. This closure is approved. 1/4/2023 rhamlet

CONDITIONS

Action 154497

Condition Date