Page 1 of 49

Incident ID	nAPP2213830227
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 i	tems must be included in the closure report.		
★ A scaled site and sampling diagram as described in 19.15.29.11 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		
X 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 replaced human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Compliance. Printed Name: Jim Raley Signature:	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. Title: Environmental Professional Date: 7/6/2022		
email:jim.raley@dvn.com	Telephone:575-689-7597		
OCD Only			
Received by: Robert Hamlet	Date: 7/18/2022		
	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.		
Closure Approved by: Robert Hamlet	Date: _7/18/2022		
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced		



July 6, 2022 Vertex Project #: 22E-01896

Spill Closure Report: Ross Draw Unit #047H

Section 22, Township 26 South, Range 30 East

API: 30-015-41581 County: Eddy

Incident Report: nAPP2213830227

Prepared For: WPX Energy Permian, LLC

5315 Buena Vista Drive Carlsbad, New Mexico 88220

New Mexico Oil Conservation Division - District 2 - Artesia

811 South 1st 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 mechanical seal failure on the water transfer pump at Ross Draw Unit #047H, API 30-015-41581, Incident nAPP2213830227 (hereafter referred to as "RDU 47"). 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 32.0347519, W -103.8757782.

Background

RDU 47 is located approximately 17.41 miles southeast of Malaga, New Mexico (Google Inc., 2022). The legal location for the site is Section 22, 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, 2022) indicates the site's surface geology is comprised primarily of Qep - Eolian and piedmont deposits (Holocene to middle Pleistocene) and is characterized as eolian sands and piedmont-slope deposits. The Natural Resources Conservation Service Web Soil Survey characterizes the predominant soil texture on the site as Upton-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, 2022).

The surrounding landscape is associated with ridges and fans at elevations of 2,000 to 5,700 feet above sea level. The climate is semi-arid, with annual precipitation ranging between 6 to 14 inches. Historically, the plant community has a grassland aspect, dominated by grasses with shrubs. Black grama is dominant with a mixture of blue grama and sideoats grama, mesquite and creosotebush. Mesquite, whitethorn, creosote, and lovegrass are the greatest threat to dominate this site in the long term after disturbance.

vertex.ca

WPX Energy Permian, LLC Ross Draw Unit #047H, nAPP2213830227 2022 Spill Assessment and Closure July 2022

There is no surface water located at RDU 47. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 New Mexico Administrative Code (NMAC), is the Pecos River located approximately 5.29 miles southwest of the site (United States Fish and Wildlife Service, 2022). There are no continuously 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 (New Mexico Oil Conservation Division, 2018).

Incident Description

The spill occurred on May 15, 2022, due to mechanical seal failure on the water transfer pump. The spill was reported on May 18, 2022, and involved the release of approximately 20 barrels (bbl.) of produced water into the lined containment of the tank battery. Approximately 20 bbl. of free fluid was removed during initial spill clean-up. The NMOCD C-141 Report: nAPP2213830227 is included in Attachment 1. The Daily Field Report (DFRs) and site photographs are included in Attachment 2.

Closure Criteria Determination

The depth to groundwater was determined using information from the 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 125 feet below ground surface (bgs) and 1.31 miles from the site (New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2022a and 2022b). Documentation used in Closure Criteria Determination research is included in Attachment 3.

WPX Energy Permian, LLC Ross Draw Unit #047H, nAPP2213830227 2022 Spill Assessment and Closure July 2022

	Criteria Worksheet ne: Ross Draw Unit #047H			
	ordinates:	X: 32.0347519	Y: -103.8757782	
•	cific Conditions	Value	Unit	
1	Depth to Groundwater	125	feet	
	Within 300 feet of any continuously flowing	27.025	Cont	
2	watercourse or any other significant watercourse	27,925	feet	
	Within 200 feet of any lakebed, sinkhole or playa			
3	lake (measured from the ordinary high-water	28,375	feet	
	mark)			
4	Within 300 feet from an occupied residence,	49.220	feet	
4	school, hospital, institution or church	48,229	reet	
	i) Within 500 feet of a spring or a private, domestic			
	fresh water well used by less than five households	17,201	feet	
5	for domestic or stock watering purposes, or			
	ii) Within 1000 feet of any fresh water well or	17 201	feet	
	spring	17,201	reet	
	Within incorporated municipal boundaries or			
	within a defined municipal fresh water field			
C	covered under a municipal ordinance adopted	No	()//NI)	
6	pursuant to Section 3-27-3 NMSA 1978 as		(Y/N)	
	amended, unless the municipality specifically			
	approves			
7	Within 300 feet of a wetland	1,105	feet	
8	Within the area overlying a subsurface mine	No	(Y/N)	
			Critical	
9	Within an unstable area (Karst Map)	Medium	High	
3	within an unstable area (Karst Wap)	IVICUIUIII	Medium	
			Low	
10	Within a 100-year Floodplain	Undetermined	year	
11	Soil Type	Upton-Simona		
12	Feel original Classification	Challan		
12	Ecological Classification	Shallow		
13	Geology	Qep		
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100'	
MANIAC 13.13.53.15 E (Table 1) Closure Cureus			>100'	

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

Based on data included in the closure criteria determination worksheet, the release at RDU 47 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. As the nearest groundwater well is more than 0.5-mile from the release site, the depth to groundwater at RDU 47 cannot be accurately determined and the closure criteria for the site are determined to be 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	
	ВТЕХ	50 mg/kg	
	Benzene	10 mg/kg	

¹Total Dissolved Solids (TDS)

Liner Inspection

On June 3, 2022, Vertex provided 48-hour notification of the liner inspection to NMOCD District 2 and the BLM, as required by Subparagraph (a) of Paragraph (5) of Subsection A 19.15.29.11 NMAC. Due to a scheduling conflict a second notification was provided on June 16, 2022, to complete the liner inspection (Attachment 4). On June 20, 2022, Vertex was on-site to identify the area of the spill specified in the initial C-141 Report, conduct an inspection of the lined containment and verify that the liner was intact and had the ability to contain the release. 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, liner integrity was confirmed. The DFR and associated photographs of the liner inspection are included in Attachment 2.

Closure Request

Vertex recommends no remediation action to address the release at RDU 47. 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 nAPP2213830227 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 RDU 47.

vertex.ca

²Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

³Benzene, toluene, ethylbenzene, and xylenes (BTEX)

WPX Energy Permian, LLC Ross Draw Unit #047H, nAPP2213830227 2022 Spill Assessment and Closure July 2022

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

	July 6, 2022
Monica Peppin	Date

PROJECT MANAGER, REPORTING

Attachments

Attachment 1. NMOCD C-141 Release Notification
Attachment 2. Daily Field Report(s) with Photographs

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

- Google Inc. (2022). *Google Earth Pro (Version 7.3.4) [Software].* Retrieved from http://www.google.com/earth on March 1, 2022.
- New Mexico Bureau of Geology and Mineral Resources. (2022). *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu.
- New Mexico Energy, Minerals and Natural Resources Department. (2022). *Coal Mine Resources in New Mexico*. Retrieved from http://www.emnrd.state.nm.us/MMD/gismapminedata.html
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2022a). *Point of Diversion Location Report*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2022b). *Well Log/Meter Information Report*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- 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 Homeland Security, FEMA Flood Map Service Center. (2020). *Flood Map Number* 35015C1875D. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20 mexico#searchresultsanchor.
- United States Department of the Interior, Bureau of Land Management. (2018). *CFO Karst Public*. https://www.nm.blm.gov/shapeFiles/cfo/carlsbad spatial data.html.
- United States Fish and Wildlife Service. (2022). *National Wetlands Inventory*. Retrieved from https://www.fws.gov/wetlands/data/Mapper.html.

WPX Energy Permian, LLC Ross Draw Unit #047H, nAPP2213830227 2022 Spill Assessment and Closure July 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 and Bureau of Land Management, 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

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	nAPP2213830227
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party WPX Energy Permian, LLC		OGRID	246289			
Contact Name Jim Raley			Contact Te	elephone 575-	-689-7597	
Contact email jim.raley@dvn.com			Incident #	(assigned by OCD)	nAPP2213830227	
Contact mail	ing address	5315 Buena Vis	ta Drive, Carlsba	d, NM 88220		
			Location	of Release So	ource	
Latitude 32	2.0347519			Longitude	-103.8757782	
			(NAD 83 in de	ecimal degrees to 5 decin	nal places)	_
Site Name	ROSS DRA	W UNIT #047H		Site Type	Oil Well Pad	
Date Release	Discovered	5/15/2022		API# (if app	plicable) 30-015-	-41581
Linit Latter	Castion	Toyymahin	Donas	Course		
Unit Letter D	Section 22	Township 26S	Range 30E	Coun	ну	-
	22	203	JOL			J
Surface Owner	r: State	X Federal Tr	ribal Private (Name:)
	Nature and Volume of Release					
				n calculations or specific		volumes provided below)
Crude Oil		Volume Release			Volume Reco	
X Produced	Water	Volume Release	. , 20		Volume Reco	. , 20
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		chloride in the	Yes N	lo .		
Condensate Volume Released (bbls)			Volume Reco	overed (bbls)		
☐ Natural Gas Volume Released (Mcf)			Volume Reco	overed (Mcf)		
Other (de	Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)		
Cause of Rele	ease					
		activate water tran nment. Fluids reco		ing tank to overflow	w approx. 20 bb	ls produced water to
Volume I	Estimate = R	ecovered Volume	;			

Dago	110	+ 10
ruge i	, ,	1 4 7

Incident ID	nAPP2213830227
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
☐ Yes ☒ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	unless they could create a safety hazard that would result in injury
\overline{X} The source of the rele	ease has been stopped.	
X The impacted area ha	s been secured to protect human health and	the environment.
X Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and d above have <u>not</u> been undertaken, explain v	
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease 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 Rale		Title: Environmental Proffesional
Signature:		Date:
email:jim.raley@dvn.	com	Telephone: 575-689-7597
OCD Only		
Received by:		Date:

Page 12 of 49

Incident ID	nAPP2213830227
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?	(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 ☒ 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 X 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 X 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 X 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. ✓ Field data 			

- NA Data table of soil contaminant concentration data
- 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
- X Photographs including date and GIS information
- 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.

Received by OCD: 7/6/2022 1:54:43 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 13 of	49
Incident ID	nAPP2213830227	
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				
Signature:					
email:jim.raley@dvn.com	Telephone:575-689-7597				
OCD Only					
Received by:	Date:				

of New Mexico

Incident ID nAPP2213830227

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 is	tems must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Note That 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
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
X 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 hould their operations have failed to adequately investigate and rer numan health or the environment. In addition, OCD acceptance of	ntions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: Environmental Professional
OCD O. L.	
OCD Only	
Received by:	Date:
	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.
Closure Approved by:	Date:
Printed Name:	Title:

ATTACHMENT 2



Client:	Devon Energy Corporation	Inspection Date:	6/20/2022
Site Location Name:	Ross Draw Unit #047H	Report Run Date:	6/21/2022 2:25 AM
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	6/20/2022 8:30 AM		
Departed Site	6/20/2022 10:34 AM		

Field Notes

10:25 Complete inspection of liner to determine if any rips or tears would have allowed fluid to breach

10:39 No signs of potential breach through liner. Liner is fully intact

Next Steps & Recommendations

1 Complete closure report



Site Photos



Liner area



Viewing Direction: East

Descriptive Photo - 10
Weeking Directions East

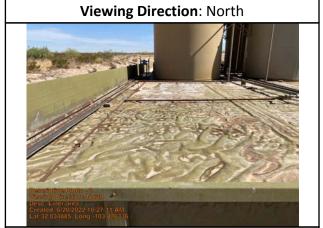
Created: 6/20/2022 10:33:36 AM
Lat: 32 034492. Long: 103.876406

Liner area



Liner area

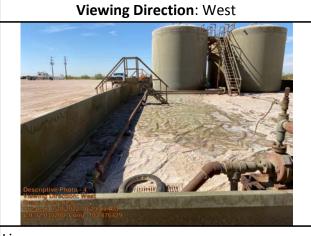




Liner area



Liner area



Liner area



Liner area





Liner area



Liner area





Run on 6/21/2022 2:25 AM UTC Powered by www.krinkleldar.com Page 4 of 5



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

ATTACHMENT 3





2017 107 107 101 1: SQ

GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-4068 POD I					OSE FILE NUMBER(S) C-4068						
	WELL OWNER NAME(S) RKI Exploration and Production, LLC							PHONE (OPTIONAL)				
	WELL OWNER MAILING ADDRESS					City Tulsa		STATE OK 7	1172	ZIP		
	WELL DEGREES MINUTES SECONDS											
	LOCATION LATITUDE (FROM GPS)			32 2 43.95 _N			* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84					
ENE		LO	NGITUDE NG WELL LOCATION TO	103	53	39.2				ERE AVAILABI	F	
1. G			ection 16, Township				nato 750	0 (02011011, 10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	LICENSE NU		NAME OF LICENSED								***************************************	
	1249 Jackie D. Atkins					Atkins Engineering Associates, Inc.				ıc.		
	i	DRILLING STARTED DRILLING ENDED DEPTH OF CO			MPLETED WELL (FT) BORE HOLE DEPTH (FT) n/a 125				DEPTH WATER FIRST ENCOUNTERED (FT) none encountered			
							STATIC WATER LEVEL IN COMPLETED WELL (FT)			L (FT)		
NO	COMPLETED	WELL IS:	ARTESIAN	V DRY HOLE SHALLOW (UNCONFINED)				·····		n/a	P	
[ATI	DRILLING FI	LUID:	✓ AIR	MUD ADDITIVES – SPECIFY:						57.5		
ORN	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER -					R – SPECIFY:	hollow stem	auger with	iir rotar	у		
& CASING INFORMATION	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE		CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)		SLOT SIZE (inches)	
% C√2	0	125	±6.625	n/a			n/a	n/a	n/a 🚎		n/a	
2. DRILLING		•								1.73		Control Control
RILI					***************************************							
2. D												
		-								<u> </u>		
L	DEPTH (feet bgl) BORE HOLE LIST ANNULAR SEAL MATERIAL A				AMOUNT							
ANNULAR MATERIAL	FROM	TO	DIAM. (inches)	GRAVEL	GRAVEL PACK SIZE-RANGE BY INTE					PLACEMENT n/a		LIVI
ATE	n/a	n/a	n/a			n/a			n/a n/			
AR M												
'ANF'												
			_									
3.		····										
FOR	OSE INTER	NAL USE	_					WR-20	WELL RECORD (& LOG (Versi	on 10/29	/15)
	NUMBER	C-	80104		POD N	UMBER			NUMBER (067	27	7
LOC	'ATION	3/6	S. 30E	in lord	<u>•3•/</u>				EXP	_	PAGE 1	OF 2

	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)			TER ING? / NO)	ESTIM YIELD WAT BEAF ZONES	FOR ER- UNG
	0	5	5	white caliche small gravel		Y	✓ N		
	5 20 15 light brown fine sand with small gravel								
	20	40	20	tan sand, medium gravel, sandstone		Y	√ N		
	40	50	10	white tannish sand/sandstone		Y	✓ N		
	50	90	40	tannish very fine sandstone		Y	✓ N		***************************************
	90	110	20	fine reddish tan sandstone		Y	✓ N		
4. HYDROGEOLOGIC LOG OF WELL	110	125	15	fine reddish sandstone with small layers of reddish clay	of reddish clay				
OF.						Y	N		
90						Y	N		
ICI						Y	N		
903						Y	N		
EO						Y	N		_
ROC						Y	N		
HXD	ļ				1	Y	N	17 A B	ار اسي درون است
4.						Y	N	1.3	
	,,.,				1	Y	N		**************************************
						Y	N	-1 70	
						Y	N	n Y,	
						Y	- N	10 / 10 / 10 / 2000	175 C
	· ·					Y	N	, 1970AP	
		· 		······································		Y	N	_73 (3:3	N
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	TOTA	L ESTIM	ATED	1927.05	
	PUMF	Паі	RIET T	BAILER OTHER - SPECIFY:	WEL	L YIELD	(gpm):	0.0	0
WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE AND DRAWDOWN OVER THE TESTING PER CONTROL OF THE TESTING									
TEST; RIG SUPERVISI								er.	
ESI	PRINT NAM	E(S) OF DE	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CO	NSTRUC	TION OT	HER TH	AN LICE	NSEE:
S. T			ba, Shane Eldrid						
SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:								
6. SIGN		Jackie D. Atkins 5/17/2017						_	
		SIGNATU	JRE OF DRILLE	R / PRINT SIGNEE NAME		······	DATE		
FOR	OSE INTERN	IAL USE		WR-20 W	ELL REC	ORD & 1	.OG (Ver	sion 10/29	/2015)
	E NUMBER	C	-40105	POD NUMBER / TRN NUM		(00)	07	フフ	
LOC	CATION	26	S.30F	E-110-103-1	EX	Di		PAGE 2	OF 2

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

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.

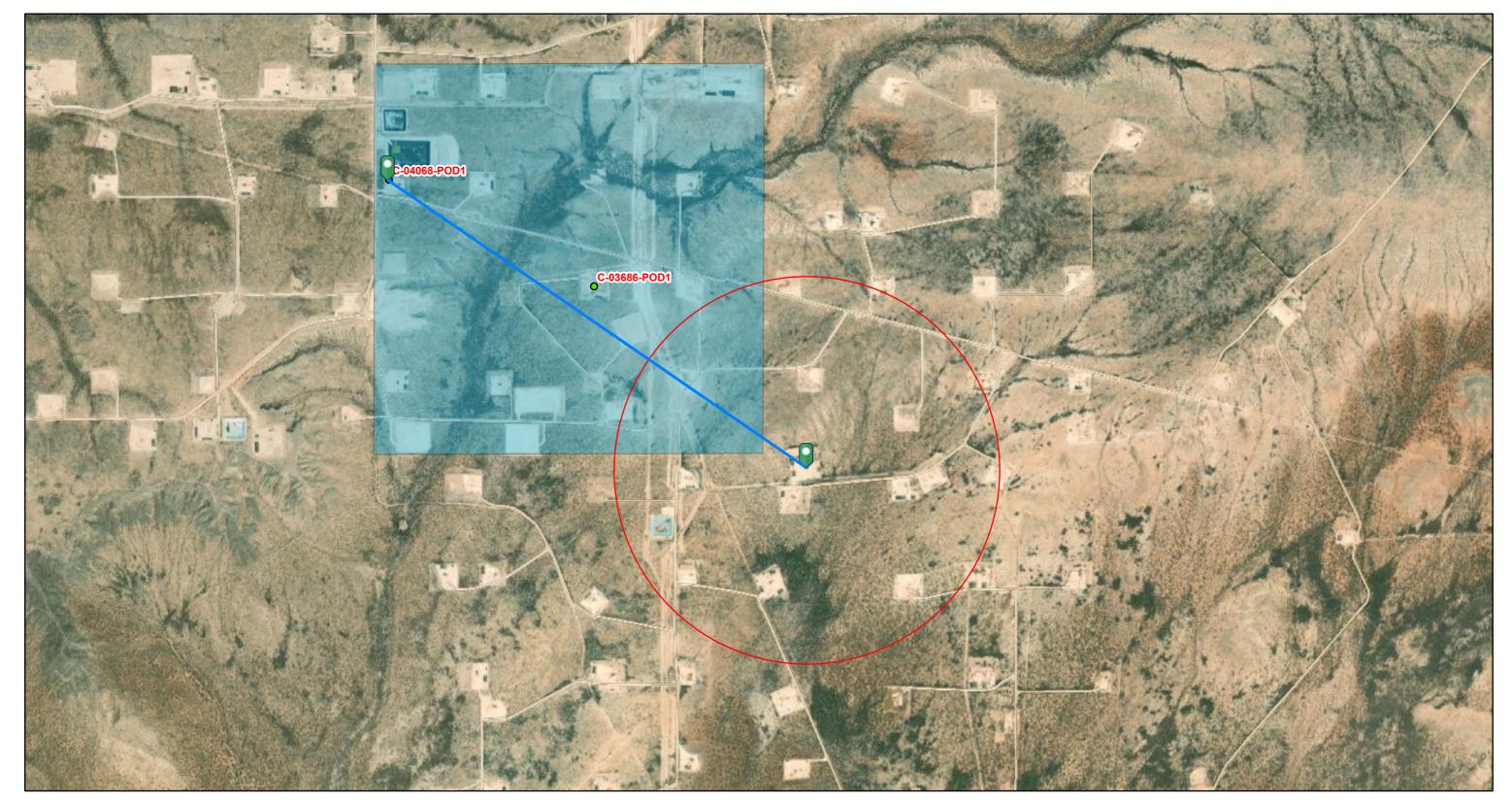
If you have any questions, please feel free to contact us.

Sincerely,

Deborah Dunaway (575)622-6521

drywell

Ross Draw Unit #047H



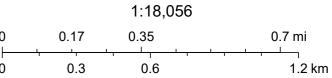


Pending Override 1 GIS WATERS PODs **OSE District Boundary** Active

New Mexico State Trust Lands

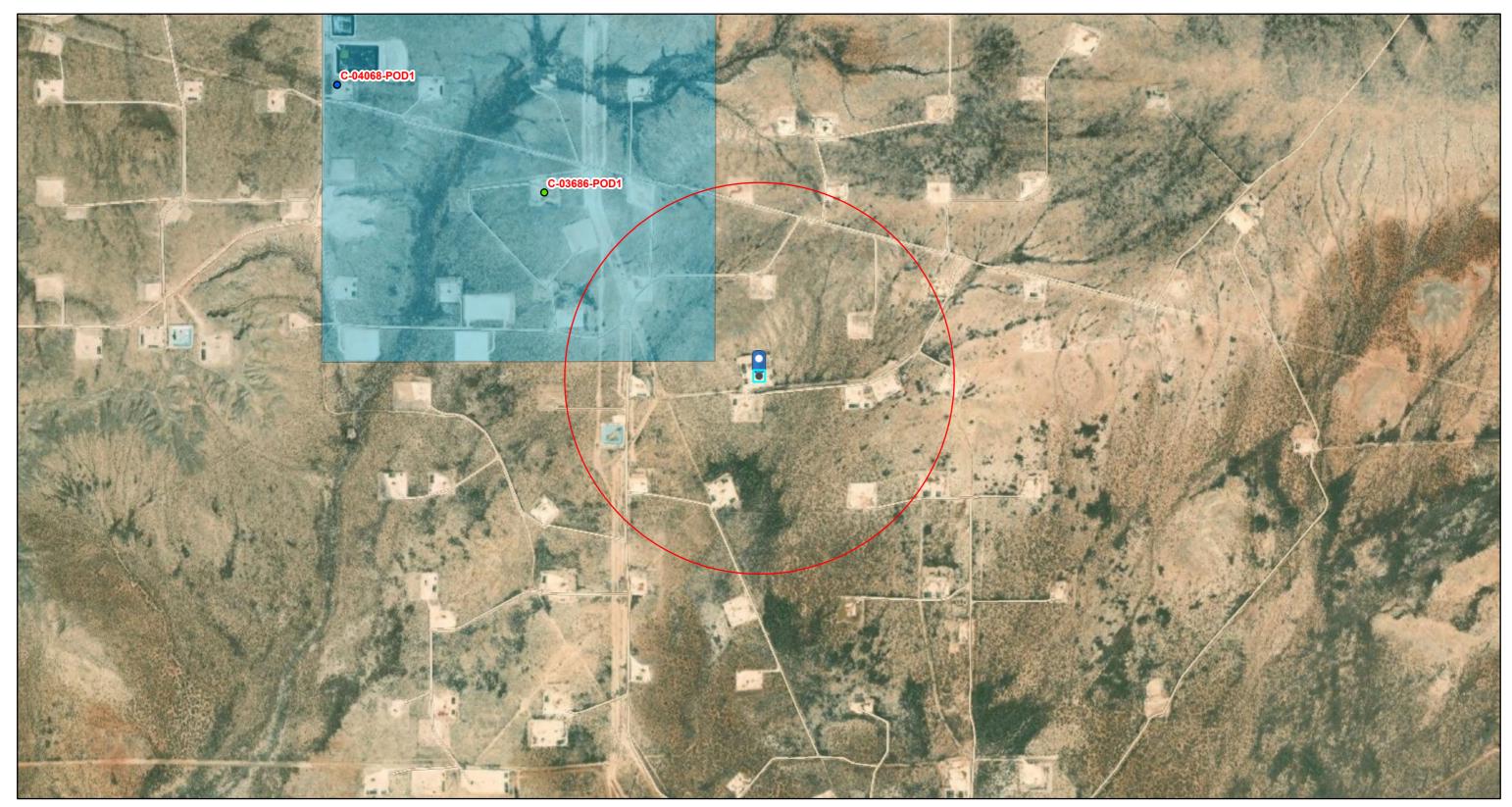
Both Estates

SiteBoundaries



Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, U.S. Department of Energy Office of Legacy Management

Ross Draw Unit #047H



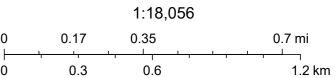
5/23/2022, 10:56:04 AM

GIS WATERS PODs OSE District Boundary SiteBoundaries

Active New Mexico State Trust Lands

Pending

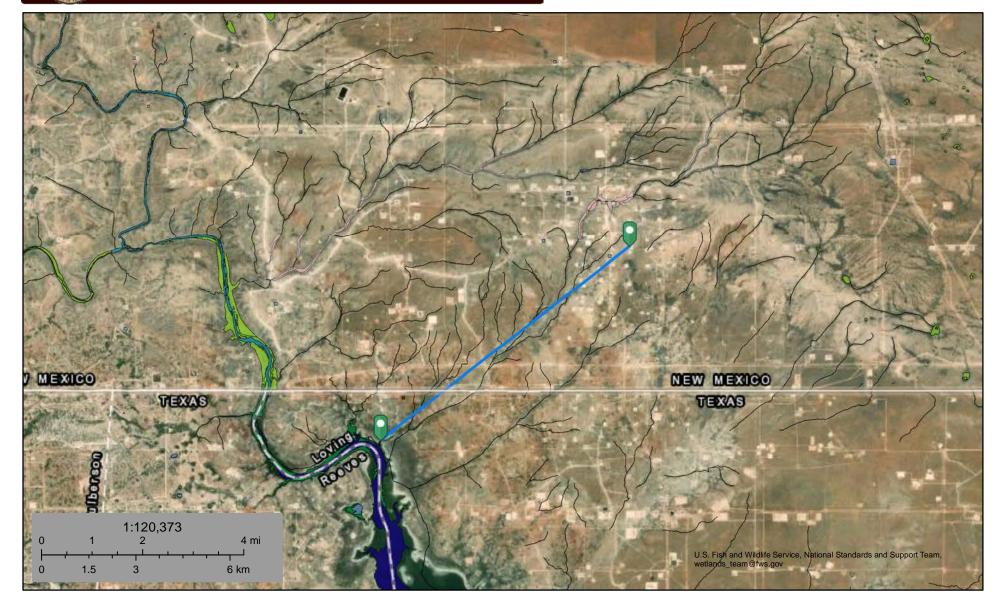
Both Estates



Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, U.S. Department of Energy Office of Legacy Management



Ross Draw Unit 47



May 23, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake



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.



Ross Draw Unit #047H

May 23, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

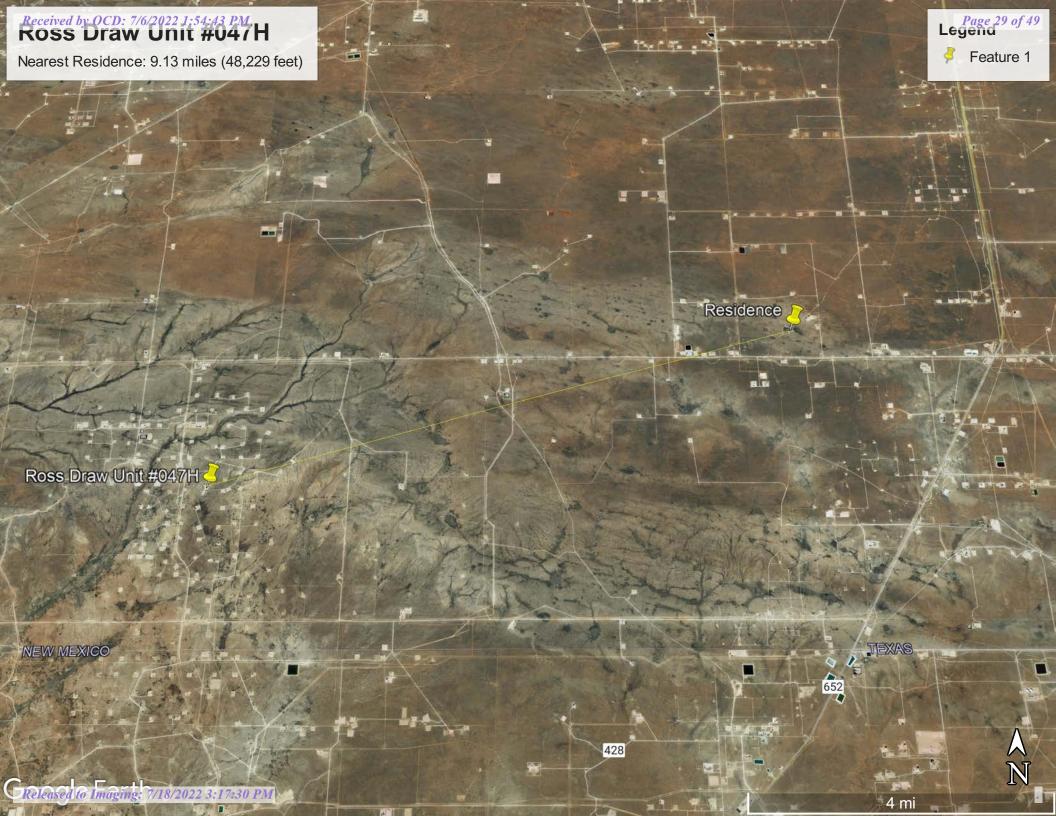
Freshwater Pond

Lake

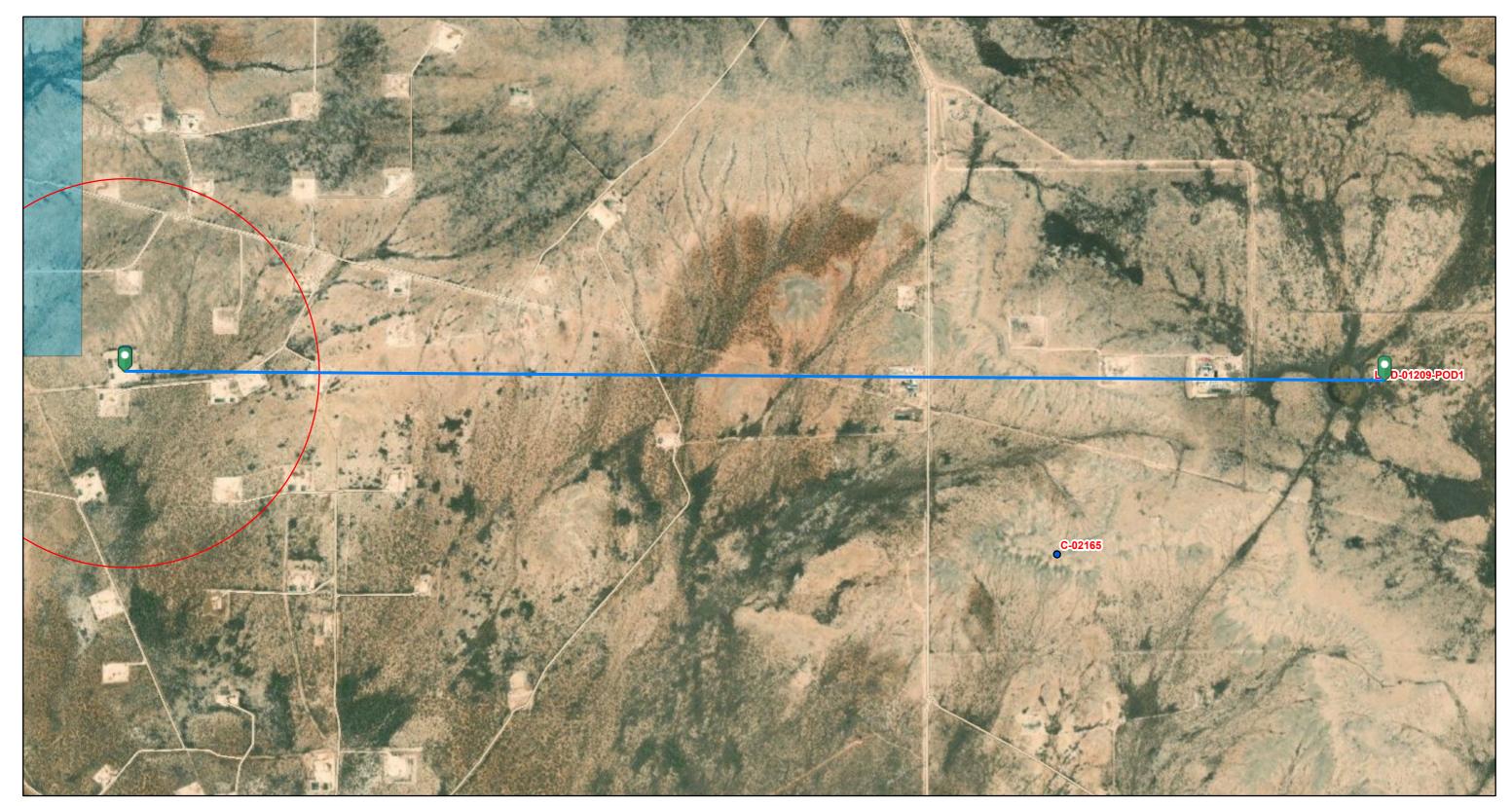
Other



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.



Ross Draw Unit #047H





OSE District Boundary SiteBoundaries Override 1 GIS WATERS PODs New Mexico State Trust Lands

Active

Both Estates

1:18,056 0.35 0.17 0.7 mi 0.3 0.6 1.2 km

Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, U.S. Department of Energy Office of Legacy Management



New Mexico Office of the State Engineer

Water Right Summary

LWD 01209 WR File Number: Subbasin: CUB Cross Reference: LWD-C-14

Primary Purpose: PLS NON 72-12-1 LIVESTOCK WATERING

Primary Status: DCL DECLARATION

Total Acres: 11 Subfile: Header: -

Total Diversion: 22.7 Cause/Case:

> Owner: **BUCK & LARUE JACKSON TRUST**

Documents on File

From/ Status

Trn# File/Act 2 **Transaction Desc.** To **Diversion Consumptive** Doc Acres 1992-03-16 DCL PRC LWD-C-14 T 22.7 11

631580 DCL

Current Points of Diversion

(NAD83 UTM in meters)

O **POD Number** Well Tag Source 64Q16Q4Sec Tws Rng **Other Location Desc** 611349 3544855* LWD 01209 POD1 1 2 1 19 26S 31E

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Priority Status Acres Diversion Pod Number 12/31/1906 DCL 22.7 LWD 01209 POD1 11

Place of Use

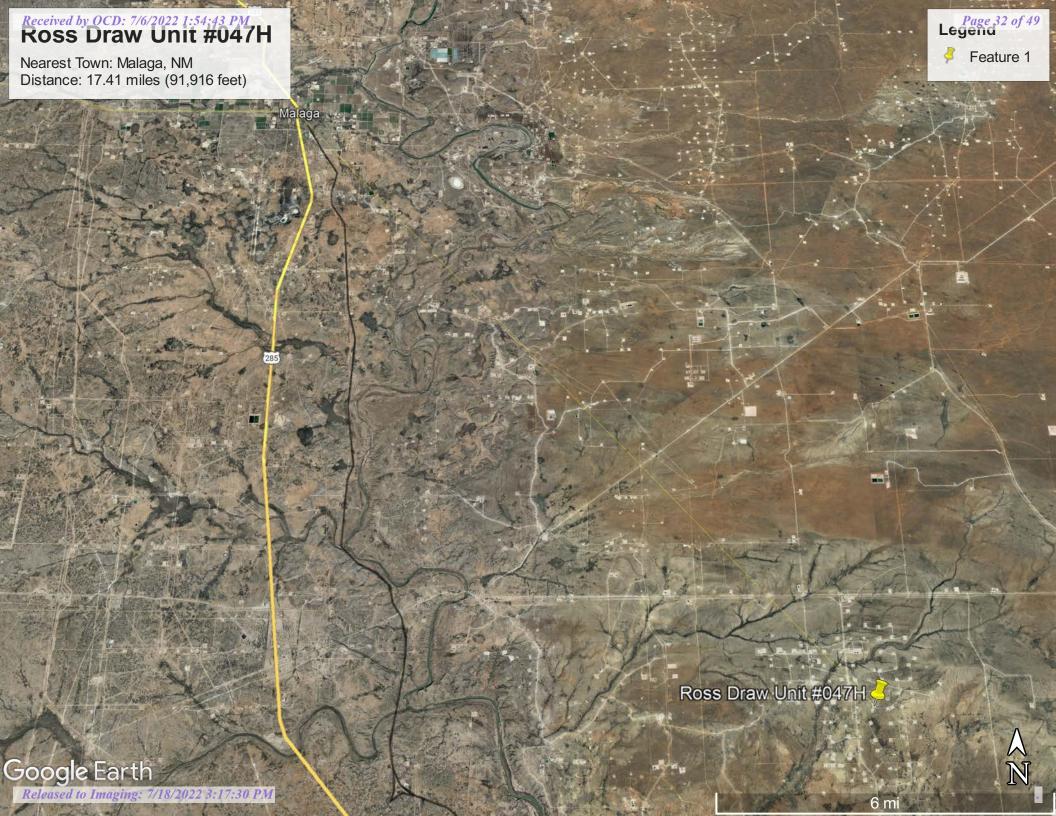
256 64 Q16 Q4Sec Tws Rng Diversion CU Use Priority **Status Other Location Desc** Acres 1 2 1 19 26S 31E 22.7 PLS 12/31/1906 DCL 11

Source

Source Description Acres Diversion Use Priority 11 22.7 12/31/1906 SW

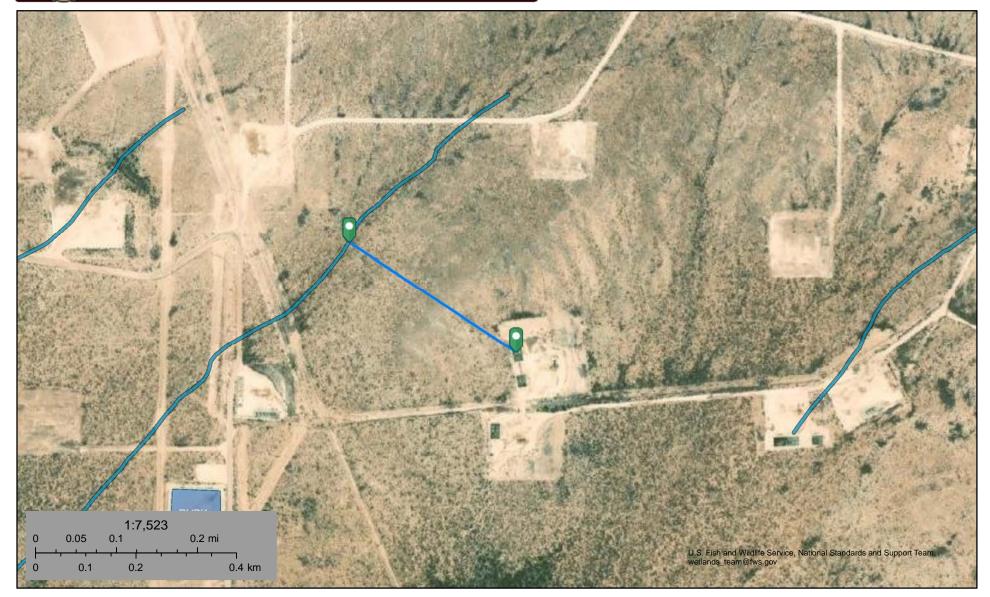
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/23/22 11:02 AM WATER RIGHT **SUMMARY**





Ross Draw Unit 47



May 23, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

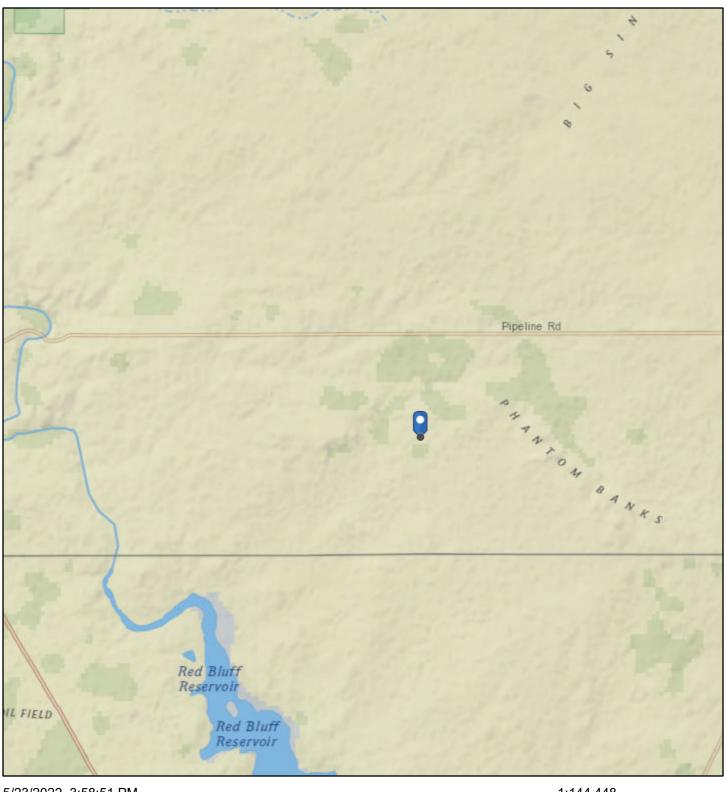


Riverine

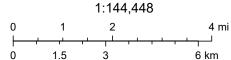


This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Coal Mines in New Mexico

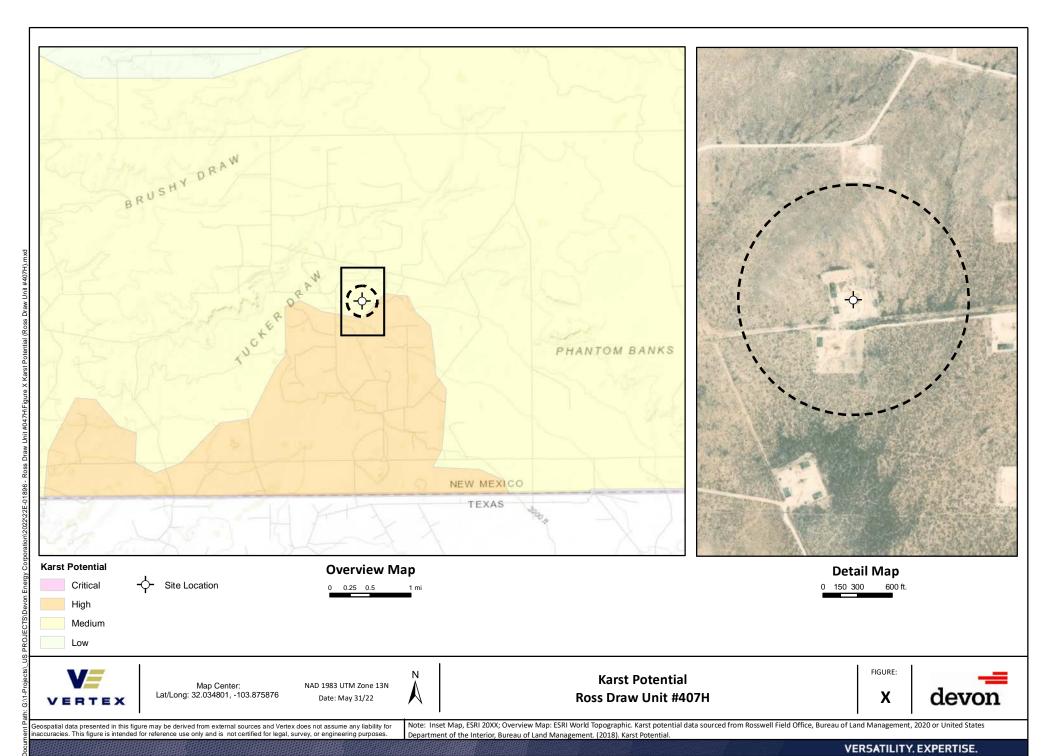


5/23/2022, 3:58:51 PM



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

Received by OCD: 7/6/2022 1:54:43 PM



National Flood Hazard Layer FIRMette





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 The pin displayed on the map is an approximate

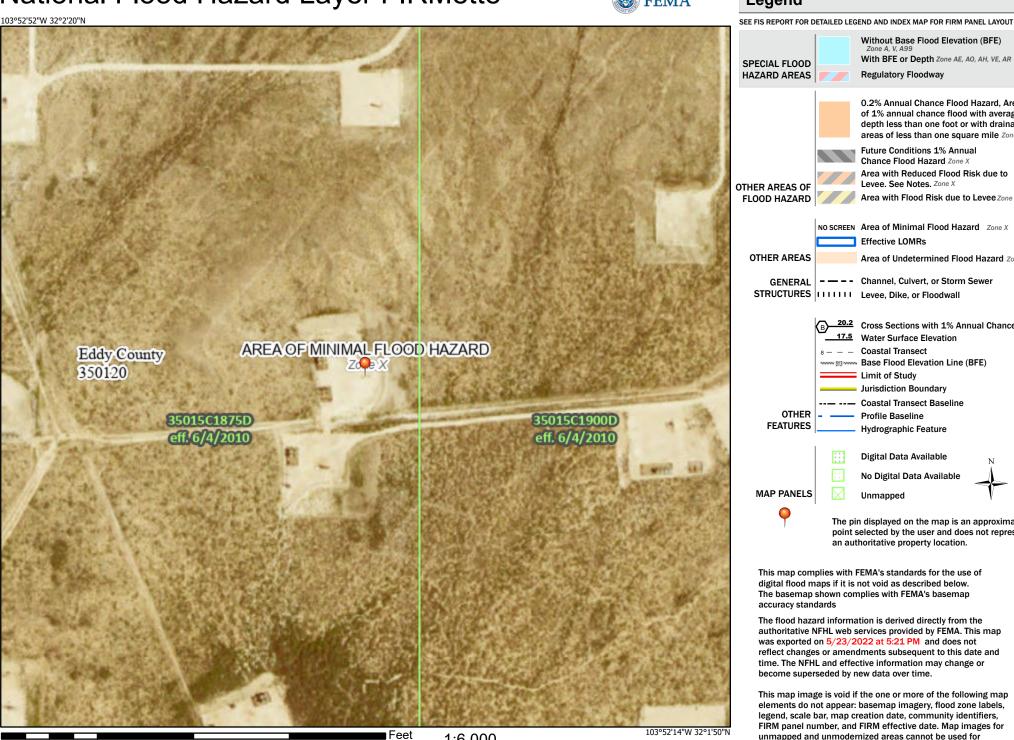
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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 5/23/2022 at 5:21 PM 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.



ORelease To Imaging: 7/18/2022 9.97:30 PM



MAP LEGEND

â

0

Δ

Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

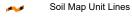
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot
Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

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 scale

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 17, Sep 12, 2021

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
US	Upton-Simona complex, 1 to 15 percent slopes, eroded	5.8	100.0%
Totals for Area of Interest		5.8	100.0%

Eddy Area, New Mexico

US—Upton-Simona complex, 1 to 15 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w66 Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 40 percent Simona and similar soils: 35 percent Minor components: 25 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

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: 1 to 15 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

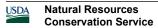
mmhos/cm)

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



Map Unit Description: Upton-Simona complex, 1 to 15 percent slopes, eroded---Eddy Area, New Mexico

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 6 inches: gravelly fine sandy loam H2 - 6 to 20 inches: gravelly fine sandy loam

H3 - 20 to 24 inches: indurated

Properties and qualities

Slope: 1 to 5 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): 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 2.4 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

Rock outcrop

Percent of map unit: 9 percent

Hydric soil rating: No

Dune land

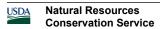
Percent of map unit: 8 percent

Hydric soil rating: No

Pajarito

Percent of map unit: 8 percent

Ecological site: R042XC003NM - Loamy Sand



Map Unit Description: Upton-Simona complex, 1 to 15 percent slopes, eroded---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

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

	Ecological Re	ference Workshee	t	
Author(s) / participant(s):	John Tunberg, Garth Grizzle			
Contact for lead author:	505-761-4488	F	Reference site used? Yes/No	No
Date: 2/17/2010	MLRA: 42.3 Ecological Site:	Shallow	This <u>must</u> be verified based on so	ils
and climate (see Ecological	Site Description). Current plant con	mmunity <u>cannot</u> be used	to identify the ecological site.	
Indicators: For each indi	cator, describe the potential for the	site. Where possible, (1)	use numbers, (2) include expected	
range of values for above an	nd below average years for each con	nmunity within the refere	ence state, when appropriate &	
(3) site data. Continue descr	iption on separate sheet.			
After wildfires, or abnormally l	e margins of this site after high-intensi	tended drought or combina	Few on slopes from 5 to 15% tions of these disturbances rills may doubten any rills formed should not be long lived	
2. Presence of water flow p	Datterns: Large storms can produce	short, less than 1 meter flow	w patterns across the bare patches.	
Water flow patterns should onl	y be present following intense storm e length and numbers may double after v	vents on upper slope limits	attern length of 6 to 8 feet on steeper slop at the margins of this site. Numerous obs th human or herbivore impacts or extende	struction
3. Number and height of er	rosional pedestals or terracettes:	There should not be any peo	destals and terracettes should be rare.	
	normally high human or herbivore imp		d pedestals are rare and only would be on r combinations of these disturbances. The	
4. Bare ground from Ecolo	ogical Site Description or other studi	es (rock, litter, lichen, mo	ss, plant canopy are not bare ground)	:
Bare ground can range from 40	to 60% with bare patches less than 8	inches in size. Discontinuo	us. Cobble and stones up to 25%.	
5. Number of gullies and en		re should not be any gullies es less than 8%.	s or erosion associated with gullies on this	s site at
any accelerated erosion. After	r high-intensity summer thunderstorms ons of these disturbances then gully fo	or after wildfire, or abnorn	g are common on this site. There should r nally high human or herbivore impacts or ed for a year or two. Evidence of healing	r
6. Extent of wind scoured,	blowouts and/or depositional areas			
Wind erosion is minimal when summer thunderstorms, after w After rain events, exposed soil	the site is in a well vegetated condition yildfire, or abnormally high human or h surfaces form physical crusts that tend	n. Significant wind erosion herbivore impacts or extended to reduce wind erosion. Do	would only be present following high-inted drought or combinations of these distreposition from off site sources can be conhen vegetation is removed or significantly	tensity urbances mmon o

7. Amount of litter movement (describe size and distance expected to travel):

The size of the litter (grass litter) should be small and its movement should be less than 1 meter across bare patches.

8. Soil surface (top few mm) resistance to erosion (stability) values are averages - most sites will show a range of values for both plant canopy and interspaces, if different):

Stability values are estimated to be 5 to 6 in plant canopy at surface and subsurface. 4 to 5 valus will be in interspaces at surface and subsurface.

9. Soil surface structures and SOM content (include type and strength of structure, and A-horizon color and thickness for both plant canopy and interspaces, if different):

Surface layer is brown 0 to 3 " thick. Color is dark grey brown, brown and grey brown. Soil loss from human and high herbivor impact or extended drought will result in the loss of a portion of the surface horizon. Physical crust will occure on "baked" soils. Textures are loam and gravelly loam.

10. Effect of plant community composition (relative proportion of different functional groups) & spatial distribution on infiltration

In a grassland with uniformly distributed grass patches on coarse-textured soils, runoff should be low to nil. Most water infiltrates at the plant bases as well as in the interspaces.

11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for **compaction):** There should not be any compaction layers on this site.

There are soil profile features in the top 9 inches of the soil profile that would be mistaken for a management induced soil compaction layer. Management induced compaction layers will be more difficult to penetrate than clay lenses.

12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: indicate much greater than (>>), greater than (>), and equal to (=):

Dominants: Black grama > Subdominants: Short-lived perennial C4 bunchgrasses [blue grama and sideoats grama] > Long-lived perennial C4 midgrasses > shrubs > forbs

13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):

Short-lived perennial component can exhibit significant mortality in drought, black grama tends to exhibit mortality only when exposed to drought in addition to other stressors. Shrubs/yucca should exhibit low mortality rates.

14. Average percent litter cover (______%) and depth (_____inches). 5 to 8% litter cover on this site. Well distributed. Depth of 1/2 inch.

15. Expected annual production (this is TOTAL above-ground production, not just forage production):

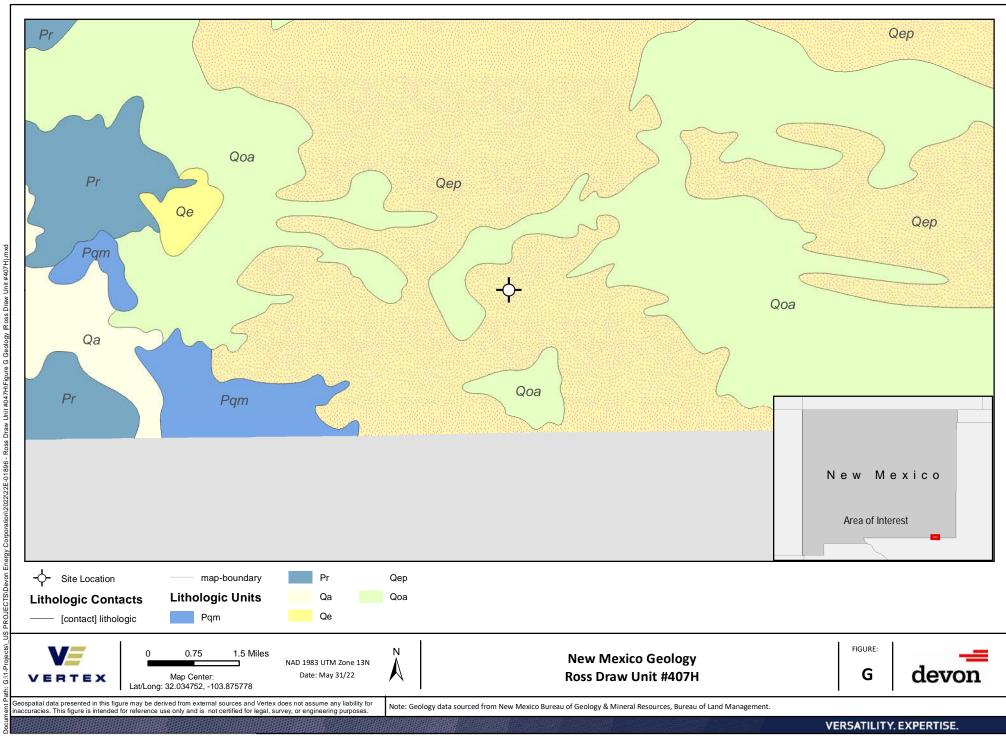
(Low Production 251 lbs./ac.) (Average RV Production 525 lbs./ac.) (High Production 800 lbs./ac.) After wildfires, high herbivore impacts, extended drought, or combinations of these disturbances, can cause production to be significantly reduced (100-200 lbs per ac. the first growing season following a wildfire) and recover slowly under below average precipitation regimes.

16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do, continue to increase regardless of the management of the site and may eventually dominate

Mesquite, whitethorn and creosotebush (where gravel content high) can be invaders of this site. Invasive plants should not occur in reference plant community. However, lovegrass, Russian thistle, kochia, and other nonnative annuals may initially invade following extended disturbance. Mesquite and whitethorn and creosote and lovegrass are the greatest threat to dominate this site in the long term after disturbance (primarily following wildfire exclusion but also includes high human or herbivore impacts and extended drought). Mesquite and whitethorn and creosote and lovegrass are most likely to retain dominance if allowed to alter natural fire regime (this alteration may require poor land management combined with years of wet winter-spring; dry summer-fall conditions). Any of these invaded communities represent a departure from the reference state.

17. Perennial plant reproductive capability:

Black grama reproduces by seed sporadically and reproduction by tiller and stolon can be common. The dropseeds should have high reproductive potential and rapidly recover from drought in the absence of additional stresses (grazing).



ATTACHMENT 4

Monica Peppin

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, June 3, 2022 8:18 AM

To: Enviro, OCD, EMNRD; CFO_Spill, BLM_NM

Cc: Raley, Jim; Monica Peppin

Subject: RDU 47 48 HR Notification Liner Inspection nAPP2213830227

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:

nAPP2213830227 DOR: 5/15/2022 Site Name: Ross Draw Unit #047H

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

On Tuesday, June 7, 2022 at approximately 8:00 a.m., Lakin Pullman will be on site to conduct a liner inspection. He can be reached at 701-495-1722. 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

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.

Monica Peppin

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Thursday, June 16, 2022 8:23 AM

To: Enviro, OCD, EMNRD; CFO_Spill, BLM_NM

Cc: Raley, Jim; Monica Peppin

Subject: RDU 47 48-HR Notification Liner Inspection nAPP2213830227

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:

nAPP2213830227 DOR: 5/15/2022 Site Name: Ross Draw Unit #047H

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

On Monday, June 20, 2022 at approximately 8:00 a.m., Jaime Balencia will be on site to conduct a liner inspection. He can be reached at 575-361-6453. 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

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 123191

CONDITIONS

Operator:	OGRID:			
WPX Energy Permian, LLC	246289			
Devon Energy - Regulatory	Action Number:			
Oklahoma City, OK 73102	123191			
	Action Type:			
	[C-141] Release Corrective Action (C-141)			

CONDITIONS

Created By	$^{\prime}$	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2213830227 ROSS DRAW UNIT #047H, thank you. This closure is approved.	7/18/2022