

February 21, 2025

5E33088 BG#20

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

SUBJECT: Closure Request Report for the Tomb Raider 1 Federal 1H Battery, Incident ID # nAPP2427052436, Facility ID fAPP2130648375, Eddy County, New Mexico.

1.0 Introduction

On behalf of Devon Energy Production Company, LP (Devon), Souder, Miller & Associates (SMA) has prepared this Closure Request Report. This report describes the corrective actions for a produced water incident related to oil and gas production activities at the Tomb Raider 1 Federal 1H Battery (Tomb Raider), Incident ID nAPP2427052436, that occurred on September 26, 2024. The spill area is located at latitude N 32.340535 and longitude W -103.729657.

Devon completed a release notification to the New Mexico Energy, Minerals, and Natural Resources Department – Oil Conservation Division (OCD) via email on November 1, 2024, and on the Operators Electronic Permitting and Payment Portal on September 26, 2024, for the submission of Notice of Release (NOR), followed by the submission of the Form C-141, Release Notification on September 30, 2024. This letter provides a description of the incident assessment and includes a request for spill closure.

Table 1: Release Information and Closure Criteria							
Name	Tomb Raider 1 Federal 1H Battery	Company	Devon Energy Production Company, LP				
Facility ID	fAPP2130648375 PLSS GPS		L-01-23S-31E 32.340535, -103.729657				
Case Serial Number	umber NMNM105913393 Legacy ID		NMNM136203				
Incident Number	nAPP2427052436 Land Stat		Federal				
Date of Release	e September 26, 2024 County		Eddy				
Source of Release	Pinhole leak on ball valve	inside seconda	ary lined containment				
Released Volume	75 bbls	Recovered Volume 75 bbls					
NMOCD Closure Criteria	Depth to groundwater 51- potential	100 feet below	w ground surface (bgs), low karst				

2.0 Background

On September 26, 2024, a gasket was found leaking on the water transfer pump inside the secondary containment at the Tomb Raider. The total volume of released fluids was 75 barrels (bbls) of produced water. The release occurred within the secondary lined containment at Tomb Raider. Initial response activities were conducted by the operator, including source elimination, photographs of standing fluids,

recovery of approximately 75 bbls of produced water, and verification that the affected area was properly exposed and cleaned for visual observation. Documentation of the liner inspection, including photographs, is provided in the Site Assessment Report and Photolog in Attachment 1.

3.0 Site Geology and Vegetation

The Geologic Map of New Mexico by New Mexico Bureau of Geology and Mineral Resources indicates the surface geology at the incident location area is comprised of primarily Qep – Eolian and piedmont deposits (Holocene to middle Pleistocene), interlayed eolian sands and piedmont-slope deposits.

The surrounding geography and terrain are associated with uplands, plains, dunes, fan piedmonts, and inter-dunal areas, at elevations between 2,800 and 5,000 feet above mean sea level (amsl). The annual average rainfall and precipitation ranges between 8 to 13 inches. Soils tend to be moderately deep or very deep.

The primary surficial soil type on the location is Kermit and Berino fine sands. This type of soil tends to be well drained, with low runoff, and low to moderate available water supply. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand, or gravelly sandy loam.

Subsurface is a loamy fine sand, course sandy loam, fine sandy loam, or loam that averages less than 18 percent clay and less than 15 percent carbonates. Substratum consists of a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

The ecological setting is vegetation of a grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed due to the course soil surface texture. Perennial and annual forbs are common but are reflective of precipitation. Shrubs are dispersed throughout the grassland and consist of honey mesquite, broom snakeweed, or sand sage.

4.0 Site Information and Closure Criteria

The Tomb Raider is located approximately 21.31 miles east of Carlsbad, New Mexico, on Bureau of Land Management (BLM) land at an elevation of approximately 3,641 feet amsl. SMA completed site assessment/characterization pursuant to 19.5.29.11-12 NMAC to determine potential environmental impacts and closure criteria. Site assessment and characterization results are included in Attachments 1 and 2.

There is no surface water located on site or within 300 feet of the site. The nearest significant watercourse, as defined in 19.15.17.7.P NMAC, is a riverine located approximately 1.59 miles, a playa lake 2.52 miles, and freshwater emergent wetland 2.67 miles to the southwest of Tomb Raider (U.S. Fish and Wildlife Service, National Wetlands Inventory, 2024). There are no continuous flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Depth to ground water was determined using New Mexico Office of the State Engineer (NMOSE) Water Rights Pod Location: ArcGIS Interactive Online Map. The nearest active pod is C-04726-Pod1, a temporary borehole placed for depth to groundwater determination by Devon, placed on the southwest corner of Tomb Raider's pad. The OSE-approved temporary borehole was bored to a depth of 55 feet bgs and was determined that groundwater is deeper than the depth of the exploratory well. The nearest domestic well is Pod C-03351, a livestock watering well located 2.95 miles southwest of Tomb Raider.

Karst potential for the area that Tomb Raider is low, based on the New Mexico State Land Office Land Status Interactive Map (NMSLO) and is located 4.67 miles from a medium karst potential area.

According to FEMA's National Flood Hazard Layer, Tomb Raider is located in Zone X, an area of minimal flood hazard (>500-year flood zone). The nearest mapped 100-year floodplain (Zone A) is located 9.64 miles southwest of the site.

Based on remediation and closure standards, the closure criteria for the site are the constituent concentration limits associated with 51 to 100 feet depth to groundwater (DTGW), as stated in Table I of 19.15.29.12 NMAC. Documentation of site characterization, including surface water features, depth to groundwater, nearest residence, unstable areas, and flood zone, is included in Attachment 2.

5.0 Remediation Activities

Prior to Devon submitting notification of the liner inspection, a change in environmental personnel occurred resulting in the incident not getting properly assigned, preventing the inspection from being conducted within the 90-day period. Devon submitted an extension request on December 16, 2024 for an additional 90 days for enough time to complete the inspection and closure request after the holiday season in 2025. The new due date was updated to March 17, 2025. Correspondence of the extension request is included in Attachment 3.

Notification of the liner inspection, scheduled for December 21, 2024, was provided to Devon through email by SMA personnel on December 18, 2024. Devon provided notification to NMOCD through the ENMRD Electronic Permitting and Payment Portal for Operators on December 18, 2024 and email notification to BLM. Notification of correspondence is included in Attachment 3.

On December 21, 2024, SMA personnel performed an on-site visual inspection of the secondary containment to verify liner integrity as outlined in in Paragraph (5)(a) of Subsection A of 19.15.29.11 NMAC.

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

6.0 Conclusions and Recommendations

Based on the liner inspection and assessment, SMA concludes the liner integrity is adequate to contain the release related to incident nAPP2427052436. There is no evidence of a release or any risk to the environment. Based on the professional activities and site assessment, Devon Energy Production Company respectfully requests closure of the incident that occurred at Tomb Raider 1 Federal 1H Battery.

7.0 Scope and Limitations

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

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

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

Alylunie Alords

Monica Peppin, A.S. Project Manager

Stephanie Hinds, P.E. Senior Engineer

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database Httpe://gis.ose.state.nm.us/gisapps/ose_pod_locations/

USGS National Water Information System: Web interface online water well database https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=321205103544701&agency_cd=USGS& format=html

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

New Mexico State Land Office: Land Status <u>NMSLO Land Status</u>

United States Department of Agriculture: Natural Resources Conservation Service: Web Soil Survey <u>https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx</u>

USDA, USGS The National Map: Orthoimagry: FEMA's National Flood Hazard Layer (NFHL) Viewer https://hazards-

fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa 9cd

NMBGMR: Interactive Resources Map <u>NMBGMR Interactive Resources Map</u>

ATTACHMENTS:

Attachment 1: Site Assessment Photolog Attachment 2: Closure Criteria Determination Research Attachment 3: Correspondence

4

ATTACHMENT 1: SITE ASSESSMENT PHOTOLOG

Site Assessment Photolog



Stronger Communities by Design

<u>Client: Devon Energy Corporation</u> <u>Facility ID: fAPP2130648375</u> <u>Lease ID: NMNM0404441</u> Site: Tomb Raider 1 Federal 1H Battery Incident ID: nAPP2427052436 Project Manager: Monica Peppin Project Owner: Jim Raley

Field Notes

December 21, 2024

- Arrive on site.
- Fill out safety paperwork.
- Begin inspection of secondary containment.
- Take photos from around the containment in all cardinal directions.
- Additional photos taken between tanks, under piping, and near equipment.
- Inspected for any visible perforations, cuts, rips, tears, or substantial weathering that could lead to the potential breach through the liner.
- Inspection complete and there are no signs of permeation through the liner.
- The barrier between the secondary containment and ground surface is isolated to withhold fluids.
- Notified client that inspection was complete and ready for closure.

Photographs



Photograph #1: Lease sign with site info and geographic data.



Photograph #2: South wall of containment looking east.



Photograph #3: South wall area facing west viewing liner near tanks.



Photograph #4: Northwest area view from the middle north section of containment.



Photograph #5: Facing east showing middle north side of containment near equipment and tanks.



Photograph #6: Looking west to show northwest corner near tank.



Photograph #7: Facing east from northwest corner.



Photograph #8: Facing east looking at south side of containment from west end.



Photograph #9: South area of containment looking west from east corner.



Photograph #10: Facing west showing north side of containment.



Photograph #11: East wall area of containment under equipment.



Photograph #12: Northeast corner of containment under piping.



Photograph #13: Facing north for southeast area.



Photograph #14: Facing east on middle north side of containment.



Photograph #15: Viewing liner from southeast corner facing west.

Technician: Monica Peppin Date: <u>12/21/2024</u>
Signature:

ATTACHMENT 2: CLOSURE CRITERIA DETERMINATION RESEARCH





Tomb Raider 1 Fed 1H Battery - OSE Pod 0.5-Mile Radius/Nearest Well

1/18/2025, 10:23:05 PM Override 1 GIS WATERS PODs • Active

Nearest Pod: Temp. BH C-04726-Pod1 Distance: 0.04 miles/229 feet (Edge of Pad) Plugging Date Recorded: 4.25.23 Depth: 55 feet bgs (No water bearing zone) DTGW: 51-100 feet bgs





Released to Imaging: 3/3/2025 7:42:18 AM

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

U.S. Fish and Wildlife Service

National Wetlands Inventory

Tomb Raider 1 Fed 1H BatteryPage 18 of 89Nearest Playa Lake Distance: 2.52 miles/13,288 feetNearest Wetland Distance: 2.67 miles/14,111 feet



Other

Riverine

Freshwater Forested/Shrub Wetland

Freshwater Pond

- Released to Imaging: 3/3/2025 7:42:18 AM

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

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



Distance to Pod: 2.95 miles (15,563 feet)



1/18/2025, 10:40:44 PM			1:18,056	
Override 1	0	0.17	0.35	0.7 mi
GIS WATERS PODs	Ó	0.3	0.6	1.2 km
Active		End UEDE	IDC Erri HERE Cormin	
 Plugged 		Esil, HERE	, IFO, ESH, HERE, Gamin,	

Page 20 of 89

Tomb Raider 1 Fed 1H Battery

ovino

Malan

a) & RV Park (Carisbad Area)

Nearest Town: Loving, NM Distance: 21.31 Miles (112,537 feet)

Legend

Page 21 of 89

- Approx. Municipal Boundary
- Distance to Boundary

Tomb Raider 1 Federal 1H Battery

Tomb Raider 1 Federal 1H Battery

Google Earth

Released to Imaging: 3/3/2025 7:42:18 AM

Crises en

The second has

the station of the party of the

Received by OCD: 2/25/2015 fraider 1 Fed 1H Battery - Subsurface Mines Map



1/19/2025, 1:03:14 AM

Mining_Ghost_Towns

No Active Mines within 20 mile radius of site



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





Received by OCD: 2/25/2025 6:29:50 AM National Flood Hazard Layer FIRMette - Tomb Raider 1 Fed 1H Battery



Legend

regulatory purposes.

Page 24 of 89



OReleased to Imaging: 3/3/2025 7,90018 AM 1,500

2,000

Basemap Imagery Source: USGS National Map 2023



Received by OCD: 2/25/2025 6:29:50 AM



Distance to Zone A: 9.64 mi / 50,889 ft

App State Click to restore the map extent and layers visibility where you left off.

1mi -103.736 32.312 Degrees



Natural Resources **Conservation Service**

Web Soil Survey National Cooperative Soil Survey

1/19/2025 Page 1 of 3

Page 27 of 89

M	AP LEGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (A	OI) Stony Spot	The soil surveys that comprise your AOI were mapped at 1:20,000.
Area of Interest (AOI) Area of Interest (A Soils Soil Map Unit Poly Soil Map Unit	ACI) Area Spon Area Stony Spot Very Stony Spot Wet Spot Special Line Features Water Features Water Features Streams and Canals Transportation HI Rails Interstate Highways US Routes Major Roads Local Roads Background Major Roads Local Roads	 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 20, Sep 3, 2024 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
 Severely Eroded Sinkhole Slide or Slip Sodic Spot 	Spot	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.

Released to Imaging: 3737202577.42:18 AM

.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
КМ	Kermit-Berino fine sands, 0 to 3 percent slopes	2.4	100.0%
Totals for Area of Interest		2.4	100.0%





PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

laili	ng address:					_			_	
ity:	Artesia			State:		New	Mex cio		_ Zip cod	le:88210
. w	ELL PLUC	GGING INFO	RMATION:							
	Name of	well drilling co	ompany that plug	gged well:	ackie D. A	tkins (A	Atkins Er	ngineering	Associates	s Inc.)
	New Me	xico Well Drille	er License No.:	1249		_		_ Expira	ation Date:	04/30/25
	Well plu Shane E	gging activities Idridge, Lupe L	were supervised eyba	l by the follow	wing well	driller(s)/rig su	pervisor(s	;):	
	Date wel	l plugging bega	an: 4/25/23	1.00	Date	well plu	gging co	oncluded:	4/25/23	
	GPS We	ll Location:	Latitude: Longitude:	32 103	_deg, _deg,	20 43	min, min,	23.65 47.22	sec sec, WG	S 84
	Depth of by the fo	well confirmed	at initiation of particular initiation of part	plugging as:	55	_ ft bel	low grou	nd level (bgl),	
	Static wa	iter level measu	red at initiation	of plugging:	n/a	_ ft bg	1			
	Date wel	l plugging plan	of operations w	as approved l	by the Star	te Engi	neer:	3/30/23	_	
	Were all difference	plugging activies between the	ties consistent w approved pluggi	vith an approving plan and t	ed pluggi he well as	ing plan s it was	? plugged	Yes (attach a	_ If not, dditional pa	please descri ages as needed)
_							_	_		

Version: September 8, 2009 Page 1 of 2 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
	10'-55' Drill Cuttings	Approx. 71 gallons	71 gallons	Boring	
-	-				
1.1.1	-				
- -	-				
		, Ŧ			
-		MULTIPLY cubic feet x 7 cubic yards x 20	I BY AND OBTAIN 7.4805 = gallons 1.97 = gallons		

For each interval plugged, describe within the following columns:

III. SIGNATURE:

I, Jackie D. Atkins , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

4/26/23

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

10-C-4726_WR-20 Well Record and Log_packet-forsign

Final Audit Report

y

2023-04-26

Created:	2023-04-26	
Ву:	Lucas Middleton (lucas@atkinseng.com)	
Status:	Signed	
Transaction ID:	CBJCHBCAABAAMZN9MhgFMwkKRdXW8aJNd3jYU1ClaLzo	

"10-C-4726_WR-20 Well Record and Log_packet-forsign" Histor

- Document created by Lucas Middleton (lucas@atkinseng.com) 2023-04-26 - 3:23:36 PM GMT- IP address: 64.17.82.146
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2023-04-26 - 3:24:07 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2023-04-26 - 3:54:53 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2023-04-26 - 3:55:43 PM GMT - Time Source: server- IP address: 64.90.153,232
- Agreement completed. 2023-04-26 - 3:55:43 PM GMT





e of the State Engl				STATE STATE OF
	WEL	L PLUGG	ING	
*** > ***	PLAN O	F OPERA	TIONS	1912 - 001-
TE: A Well Plugging Plan of Operati d to plug a single well, or if you are pl	ons shall be filed with a lugging multiple monito	nd accepted by the Of oring wells on the same	Nice of the State Engine site using the same	neer prior to plugging. This form may be plugging methodology.
ert! Your well may be eligible to partic mn/ if within an area of interest and mo nstruction reflected in a well record an ior to completing this prior form. Show ater date.	ipate in the Aquifer Ma cets the minimum const d log is not compromise ving proof to the OSE th	pping Program (AMH ruction requirements, ed, contact AMP at 57: nat your well was acce	')-NM Bureau of Geo such as there is still v 5-835-5038 or -6951, c pted in this program,	logy geoinfo.nmt.edu/resources/water/ water in your well, and the well or by email nmbg-waterlevels@nmt.edu, may delay the plugging of your well until
FILING FEE: There is no filin	g fee for this form.			
GENERAL / WELL OWNER	RSHIP: Check	there if proposing one p	blan for multiple monit	oring wells on the same site and attaching WI
xisting Office of the State Engi	neer POD Number	(Well Number) fo	or well to be plug	gged: C-4726 - (POD-1)
ame of well owner: Devon Ene	ergy			
ailing address: 6488 Rivers	Hy		County	y: Eddy
ty: Artesia		State:	NM	Zip code: 8 8210
one number: 575-746-1656		E-mail:	Dale.woodall@uv	
WELL DRILLER INFORM	ATION:	Jackie D. Atkins ()	Atkins Engineering	Associates)
I. WELL DRILLER INFORM. /ell Driller contracted to provide p	ATION:_ plugging services:	Jackie D. Atkins (A	Atkins Engineering	Associates)
Vell Driller contracted to provide play the second	ATION:_ plugging services: _ No.: <u>1249</u>	Jackie D. Atkins (/	Atkins Engineering	Associates) n Date: 04 3 02023
IL WELL DRILLER INFORM. /ell Driller contracted to provide plant of the provide plant of the provide plant of the provide plant of the	ATION:_ plugging services: _ No.: <u>1249</u>	Jackie D. Atkins (/	Atkins Engineering Expiration	Associates) n Date: <u>04 3 (2023</u>
I. WELL DRILLER INFORM. /ell Driller contracted to provide p ew Mexico Well Driller License p /. WELL INFORMATION:	ATION:_ plugging services: No.: <u>1249</u> Check here if this pla supplemental form V	Jackie D. Atkins (/ an descrihes method fo VD-08m and skip to #	Atkins Engineering Expiration or plugging multiple 2 in this section.	Associates) n Date: <u>04 3 02023</u> monitoring wells on the same site and attac
I. WELL DRILLER INFORM. Vell Driller contracted to provide p ew Mexico Well Driller License p V. WELL INFORMATION: ote: A copy of the existing Well	ATION:_ plugging services: _ No.: <u>1249</u> Check here if this pla supplemental form V Record for the well(Jackie D. Atkins (/ an describes method fo VD-08m and skip to # (s) to be plugged sl	Atkins Engineering Expiration br plugging multiple 2 in this section. hould be attached t	Associates) n Date: 04 3 02023 monitoring wells on the same site and attac to this plan.
I. WELL DRILLER INFORM. Well Driller contracted to provide (ew Mexico Well Driller License (WELL INFORMATION: [ote: A copy of the existing Well GPS Well Location:	ATION:_ plugging services: No.: <u>1249</u> Check here if this pla supplemental form V Record for the well(Latitude:3.	Jackie D. Atkins (/ an describes method fo VD-08m and skip to # (s) to be plugged sh 2	Atkins Engineering Expiration or plugging multiple 2 in this section. hould be attached to 20 min, 2	Associates) n Date: 04 3 02023 monitoring wells on the same site and atta- to this plan. 23.65 sec
I. WELL DRILLER INFORM. Yell Driller contracted to provide tew Mexico Well Driller License I Y. WELL INFORMATION: [tote: A copy of the existing Well GPS Well Location:	ATION:. plugging services: No.: <u>1249</u> Check here if this pla supplemental form V Record for the well(Latitude:3. Longitude:1	Jackie D. Atkins (/ an describes method fi VD-08m and skip to # (s) to be plugged sh 2deg, 03deg,	Atkins Engineering Expiration or plugging multiple of 2 in this section. nould be attached of 20min,2 43min,4	Associates) n Date: 04 3 02023 monitoring wells on the same site and attaction to this plan. 23.65 sec 7.22 sec, NAD 83 DSE OT MAR 27 2023 PM1:23
I. WELL DRILLER INFORM. Yell Driller contracted to provide tew Mexico Well Driller License Y. WELL INFORMATION: Cote: A copy of the existing Well GPS Well Location: Reason(s) for plugging we	ATION:. plugging services: No.: <u>1249</u> Check here if this play Supplemental form V Record for the well(Latitude:3. Longitude:1 ell(s):	Jackie D. Atkins (/ an describes method fo VD-08m and skip to # (s) to be plugged sl 2deg, 03deg,	Atkins Engineering Expiration or plugging multiple of 2 in this section. hould be attached to 20 min,2 43 min,4	Associates) n Date: 04 3 02023 monitoring wells on the same site and attaction to this plan. 23.65 sec 7.22 sec, NAD 83 USE OF MAR 27 2023 PM1 23
I. WELL DRILLER INFORM. Yell Driller contracted to provide tew Mexico Well Driller License Y. WELL INFORMATION: Tote: A copy of the existing Well GPS Well Location: Reason(s) for plugging we Soil boring to determine g	ATION:. plugging services:	Jackie D. Atkins (/ an describes method fo ND-08m and skip to #. (s) to be plugged sl 2deg, 03deg,	Atkins Engineering Expiration or plugging multiple of 2 in this section. hould be attached of 20 min,2 43 min,4	Associates) n Date: 04 3 02023 monitoring wells on the same site and atta- to this plan. 23.65 sec 7.22 sec, NAD 83 DSE OII MAR 27 2023 PM1:223
L. WELL DRILLER INFORM. /ell Driller contracted to provide ew Mexico Well Driller License V. WELL INFORMATION: v. WELL INFORMATION: ote: A copy of the existing Well GPS Well Location: Reason(s) for plugging we Soil boring to determine g	ATION:. plugging services: No.: <u>1249</u> Check here if this pla supplemental form V Record for the well(Latitude: <u>3.</u> Longitude: <u>1</u> ell(s): roundwater level	Jackie D. Atkins (/ an describes method fi VD-08m and skip to # (s) to be plugged sh 2deg, 03deg,	Atkins Engineering Expiration or plugging multiple of 2 in this section. hould be attached of 20min,2 43min,4	Associates) n Date: 04 3 02023 monitoring wells on the same site and atta- to this plan. 23.65 sec 7.22 sec, NAD 83 DSE OII MAR 27 2023 PM1 23
L. WELL DRILLER INFORM. /ell Driller contracted to provide ew Mexico Well Driller License V. WELL INFORMATION: (ote: A copy of the existing Well GPS Well Location: Reason(s) for plugging we Soil boring to determine g Was well used for any typ what hydrogeologic parawater, authorization from	ATION:. plugging services: No.: <u>1249</u> Check here if this pland Supplemental form V Record for the well(Latitude:3. Longitude:1 ell(s): roundwater level be of monitoring pro- meters were monitor the New Mexico Em	Jackie D. Atkins (/ an describes method fi VD-08m and skip to # (s) to be plugged sl 2	Atkins Engineering Expiration or plugging multiple of 2 in this section. hould be attached of 20 min, 2 43 min, 4 1f yes, please use was used to mor ment may be requi	Associates) n Date: 04 3 02023 monitoring wells on the same site and attaction to this plan. 23.65 sec 7.22 sec, NAD 83 DSE OF MAR 27 2023 PM1:23 e section VII of this form to detail nitor contaminated or poor quality ired prior to plugging.
I. WELL DRILLER INFORM. Yell Driller contracted to provide wew Mexico Well Driller License Yell INFORMATION: Yell Cote: A copy of the existing Well GPS Well Location: Reason(s) for plugging we Soil boring to determine g Was well used for any typ what hydrogeologic para water, authorization from Does the well tap brackisl	ATION:. plugging services:	Jackie D. Atkins (/ an describes method for ND-08m and skip to #. (s) to be plugged sl 2	Atkins Engineering Expiration or plugging multiple 2 in this section. hould be attached to 20 min,2 43 min,4 lf yes, please use was used to mor ment may be requi ter? <u>N/A</u>	Associates) n Date: 04 3 02023 monitoring wells on the same site and attaction to this plan. 23.65 sec 7.22 sec, NAD 83 DSE OF MAR 27 2023 PM1 23 e section VII of this form to detail nitor contaminated or poor quality ired prior to plugging. If yes, provide additional detail,
I. WELL DRILLER INFORM. Tell Driller contracted to provide tew Mexico Well Driller License V. WELL INFORMATION: [tote: A copy of the existing Well GPS Well Location: Reason(s) for plugging we Soil boring to determine g Was well used for any typ what hydrogeologic para water, authorization from Does the well tap brackisl including analytical result	ATION:. plugging services: No.: Check here if this plands Supplemental form V Record for the well(Latitude: Longitude: ell(s): roundwater level be of monitoring pro- meters were monitor the New Mexico End h, saline, or otherwing s and/or laboratory n	Jackie D. Atkins (/ an describes method fi VD-08m and skip to # (s) to be plugged sl 2	Atkins Engineering Expiration or plugging multiple of 2 in this section. hould be attached of 20 min, 2 43 min, 4 1f yes, please use was used to mor nent may be requi ter? N/A	Associates) n Date: 04 3 02023 monitoring wells on the same site and attaction to this plan. 23.65 sec 7.22 sec, NAD 83 DSE OII MAR 27 2023 PM1:223 e section VII of this form to detail nitor contaminated or poor quality ired prior to plugging. If yes, provide additional detail,
II. WELL DRILLER INFORM. /ell Driller contracted to provide lew Mexico Well Driller License V. WELL INFORMATION: [lote: A copy of the existing Well) GPS Well Location:) GPS Well Location:) Reason(s) for plugging well) Soil boring to determine g) Was well used for any typ what hydrogeologic parawater, authorization from) Does the well tap brackisl including analytical result) Static water level:Un	ATION:. plugging services:	Jackie D. Atkins (/ an describes method for VD-08m and skip to #. (s) to be plugged sl 2	Atkins Engineering Expiration or plugging multiple of 2 in this section. hould be attached of 20 min,2 43 min,4 If yes, please use was used to mor ment may be requi ter? <u>N/A</u>	Associates) n Date: 04 3 02023 monitoring wells on the same site and attact to this plan. 23.65 sec 7.22 sec, NAD 83 DSE OF MAR 27 2023 PM1 23 e section VII of this form to detail nitor contaminated or poor quality ired prior to plugging. If yes, provide additional detail, ce (circle one)
IL. WELL DRILLER INFORM. Vell Driller contracted to provide lew Mexico Well Driller License V. WELL INFORMATION: Iote: A copy of the existing Well) GPS Well Location:) Reason(s) for plugging well) Reason(s) for plugging well) Reason(s) for plugging well) Was well used for any typ what hydrogeologic parawater, authorization from) Does the well tap brackisl including analytical result) Static water level:) Depth of the well:	ATION:. plugging services: No.: 	Jackie D. Atkins (/	Atkins Engineering Expiration or plugging multiple of 2 in this section. hould be attached to 20 min,2 43 min,4 If yes, please use was used to mor nent may be requi ter? <u>N/A</u> t above land surface	Associates) n Date: 04 3 02023 monitoring wells on the same site and attact to this plan. 23.65sec 7.22sec, NAD 83 DSE OII MAR 27 2023 PM1:23 e section VII of this form to detail nitor contaminated or poor quality ired prior to plugging. If yes, provide additional detail, ce (circle one)

7)	Inside diameter of innermost casing:inches.
5)	Casing material: 2" Temporary PVC Sch 40 to be removed prior to plugging
9)	The well was constructed with: an open-hole production interval, state the open interval: a well screen or perforated pipe, state the screened interval(s):
10)	What annular interval surrounding the artesian casing of this well is cement-grouted? <u>N/A</u>
11)	Was the well built with surface casing?If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? If yes, please describe:
i2) V. D	Has all pumping equipment and associated piping been removed from the well?If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.
lote.	If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed
liagra s geop	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such obysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.
ingrai s geop Also, if	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such obysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:
iagrai s geop Mso, if	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such obysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The temporary well material will be removed. Tremied from bottom to land Neat Cement in lifts
)	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such obysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The temporary well material will be removed. Tremied from bottom to land Neat Cement in lifts Will well head be cut-off below land surface after plugging?
(ingrai s geop Also, if)	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such obsysteal logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The temporary well material will be removed. Tremied from bottom to land Neat Cement in lifts Will well head be cut-off below land surface after plugging? <u>N/A</u> <u>OGE ON MAR 27 2023 to 1.23</u> LUGGING AND SEALING MATERIALS:
<pre>kiter and a second and a second a</pre>	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such obsisted logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The temporary well material will be removed. Tremied from bottom to land Neat Cement in lifts Will well head be cut-off below land surface after plugging? <u>N/A</u> <u>OSE OFF MAR 27 2023 to 123</u> <u>PLUGGING AND SEALING MATERIALS:</u> The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix he cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.
(ile; seof iagrai seof (lso, if)) / / I. <u>F</u> vote: rom th)	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such obspical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The temporary well material will be removed. Tremied from bottom to land Neat Cement in lifts Will well head be cut-off below land surface after plugging? N/A UGGE ON MAR 27 2023 + 41:23 LUGGING AND SEALING MATERIALS: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mixes or any sealant that deviates from the list of OSE approved sealants. For plugging intervals that employ cement grout, complete and attach Table A.
iagrai iagrai s geop .lso, if)) / .l. <u>F</u> iote: rom tl)	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such shysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The temporary well material will be removed. Tremied from bottom to land Neat Cement in lifts Will well head be cut-off below land surface after plugging? N/A OPE OF MAR 27 2023 FML:23 CUGGING AND SEALING MATERIALS: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mixes or any sealant that deviates from the list of OSE approved sealants. For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
(1) (iagra; (agra;	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such thysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The temporary well material will be removed. Tremied from bottom to land Neat Cement in lifts Will well head be cut-off below land surface after plugging? N/A CUEC OT MAR 27 2023 ML123 The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant Attach a copy of the batch mixes cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants. For plugging intervals that employ cement grout, complete and attach Table A. For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B. Theoretical volume of grout required to plug the well to land surface: <u>94</u>
(1) (1) (1) (1) (1) (1) (1) (1)	m of the well showing proposed finat plugged configuration shall be attached, as well as any additional technical information, such shysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The temporary well material will be removed. Tremied from bottom to land Neat Cement in lifts Will well head be cut-off below land surface after plugging? N/A COSE OFF MAR 27 2023 FML:23 PLUGGING AND SEALING MATERIALS: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mixes or any sealant that deviates from the list of OSE approved sealants. For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B. Theoretical volume of grout required to plug the well to land surface: 94 Type of Cement proposed: Type I/IlNeat Cement
diagral as geop Also, if 1) 2) YIP Note: from (1) 1) 2) 4) 5)	m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such thysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The temporary well material will be removed. Tremied from bottom to land Neat Cement in lifts Will well head be cut-off below land surface after plugging? N/A DESC DT MER 27 2023 to 1.23 LUGGING AND SEALING MATERIALS: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty scalant. Attach a copy of the batch mixe cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved scalants. For plugging intervals that employ cement grout, complete and attach Table A. Theoretical volume of grout required to plug the well to land surface: 94 Type of Cement proposed: Type I/IINeat Cement Proposed cement grout mix: 60 gallons of water per 94 pound sack of Portland cement.

•

7) Grout additives requested. and percent by dry weight relative to cement:

	Ν/Α
	Additional notes and calculations:
	N/A
U. A	DDITIONAL INFORMATION: List additional information below, or on separate sheet(s):
ne te urfaci a slu	mporary well material will be removed. If no water is encountered then drill cuttings will be used to (10) ten feet of land e and plugged using hydrated bentonite. If ground water is encountered the boring will be plugged tremie from bottom urry of Portland TYPE I/II Neat cement in lifts. A 6.5" borehole will be plugged.
	05E 0H MAR 27 2023=+L122

VIII. SIGNATURE:

I, Dale Woodall ______, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Date	The Woodall	(27 MDT)	10/7/2022
	S	ignature of Applicant	Date
IX. ACTION OF THE STATE ENGINEER:			
This Well Plugging Plan of Operations is: Approved subject to the attack Not approved for the reasons	hed conditions. provided on the	attached letter.	
Witness my hand and official seal this	30th	March	2023
STATE STATE OF	Mike A.	Hamman, P.E.	WD-08 Well Plugging Plan Version: March 07. 2022 Page 3 of 5

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	55
Theoretical volume of grout required per interval (gallons)	N/A	N/A	94
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch- mixed and delivered?	N/A	N/A	On-Site
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A SE OIT MAR 27 2023 PML 123
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

WD-08 Well Plugging Plan Version: March 07, 2022 Page 4 of 5
TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 - most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed scalant of grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of scalant required per interval (gallons)	N/A	N/A	15
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Bariod Hole Plug

OSE OT MAR 27 2023 PML 123



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL 1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623- 8559

Applicant has identified wells, listed below, to be plugged. Jackie D. Atkins (Atkins Engineering Associates Inc.) (WID-1249) will perform the plugging.

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4726-PODI	6.5 (Soil Boring)	55	Unknown	32° 20' 23.65"	103° 43' 47.22'

Permittee: Devon Energy NMOSE Permit Number: C-4726-POD1

Specific Plugging Conditions of Approval for Well located in Eddy County, New Mexico.

- Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- 2. Ground Water encountered: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 94.7 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 55 feet.
- 3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 17.2 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.
- 4. <u>Ground Water encountered:</u> Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.
- 5. **Dry Hole:** (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

- 6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.
- Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3 & 4 of these Specific Conditions of Approval.
- 8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
- 10. NMOSE witnessing of the plugging of the shallow well will not be required.
- 11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 30th day of March 2023



Mike A. Hamman, P.E. State Engineer By: Samantha Davis Water Resources Professional II



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

March 30, 2023

Devon Energy 6488 7 Rivers Hwy Artesia, NM 88210

RE: Well Plugging Plan of Operations for well no. C-4726-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely

Samantha Davis Water Resources Professional II

052 00 - 127 AV23 - 11 -



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSF POD NO. POD 1 (TW	(WELL NO. /-1))		WELL TAG ID NO N/A).		OSE FILE NOC C-4726	S).			
OCATIC	WELL OWNE Devon Ene	R NAME(S) rgy		1				PHONE (OPTIC 575-748-18	ONAL) 38			_
WELL LO	WELL OWNE 6488 7 Riv	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy						CITY Artesia		STATE NM	88210	ZIP
AIL AND	WELL LOCATION	N LAT	LATITUDE DEGREES MINUTES SECONDS 32 20 23.65 N						• ACCURACY REQUIRED: ONE TENTH OF A SECOND			
NEF	(FROM GF)	5) 1.0N	GITUDE	103	3 43 47.22 W DATUM REQUIRED: WOS 84					_	_	
1. GE	DESCRIPTIC NW L2 Se	N RELATIN c.1 T23S	G WELL LOCATION TO R31E NMPM	STREET ADDI	RESS AND COMMO	N LANDM	ARKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) W	HERE AVA	ILABLE	
	LICENSE NO 124	9	NAME OF LICENSED	DRILLER	Jackie D. Atkin	\$			NAME OF WELL D Atkins En	RILLING C	OMPANY Associates, I	nc.
	DRILLING ST 4/17/	TARTED	DRILLING ENDED 4/17/23	DEPTH OF CO Tempor	MPLETED WELL (I rary Well Mater	FT) rial	BORE HO	LE DEPTH (FT) ±55	DEPTH WATER FI	RST ENCO N/A	UNTERED (FT)	
z	COMPLETEI	WELL IS:	ARTESIAN	DRY HOL	.E 🗌 SHALLO	OW (UNCC	ONFINED)	STATIC IN COM (FT)	WATER LEVEL PLETED WELL	N/A	DATE STATIC 4/25	measured /23
TIO	DRILLING FI	.UID:		MUD	ADDITE	VES - SPE	CIFY:	ł				
RMA	DRILLING M	ETHOD:	ROTARY HAMM		LE TOOL 7 OT	IER - SPE	TIFY: H	Hollow Stem	Auger CHEC	K HERE IF	PITLESS ADA	
(FOI	DEPTH	(feet big))		CASING	MATERIAL AN	D/OR	1	PL 7	CLENIC			1
SING IL	FROM	TO	DIAM (inches)	(include	GRADE CO (include each casing string, and note sections of sereen)		CA CONI	ASING NECTION TYPE	INSIDE DIAM. TH (inches)		HICKNESS SIZE (inches) (inches	
CA CA	0	55	±6.25		Soil Boring	.,	(200 000)		••			
DNITTI												
2. DR			-				_			-		
					8			*		*		
					_			_			_	
											_	
	DEPTH	(feet bgl)	BORE HOLE	LI	ST ANNULAR S	SEAL MA	TERIAL	AND	AMOUNT		метно	DOF
FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet)					-	PLACEN	AENT					
ATER		_	_			N/A						_
R M,		(i	-4		_							
ULA		<u> </u>										
NN												
3. 5												
FOR	OSE INTER	NAL LIEF						11/12 2	A WELL BECODE	18100	Varsian A1/2	8/2022
FILI	NO. C.	047	26	-	POD N	0. 1		TRN I	NO. 7450		version 01/2	.0/2022)
LOC	ATION 2	35.3	1E.01.11	4		ì		WELL TAG I	D NO.		PAGE	1 OF 2

FROM TO THICKNESS ((eet) INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES BEARING? BEARING? 0 9 9 Sand. medium-fine grained, poorly, graded, unconsolidated, brown Y / N 9 14 5 Sand. medium-fine grained, poorly, graded, unconsolidated, brown Y / N 14 20 6 Sand, medium-fine grained, poorly, graded, unconsolidated, tan Y / N 20 45 25 Sand, fine grained, poorly, graded, unconsolidated, tan Y / N 24 5 5 10 Clay,aiff, with very-fine siti, reddsin brown Y / N 24 5 5 10 Clay,aiff, with very-fine siti, reddsin brown Y / N 24 5 10 Clay,aiff, with very-fine siti, reddsin brown Y / N 25 10 Clay,aiff, with very-fine siti, reddsin brown Y / N / 26 27 N N / / N / 26 27 N / / N / / <th>NTERED - WATER WITH</th> <th>EMATERIAL ENC</th> <th>OR AND TY</th> <th>C</th> <th></th> <th>t ugi)</th> <th></th>	NTERED - WATER WITH	EMATERIAL ENC	OR AND TY	C		t ugi)	
0 9 Sand. medium-fine grained, poorly, graded, uncossolidated, brown Y / N 9 14 5 Sand. medium-fine grained, poorly, graded, uncossolidated, brown Y / N 14 20 6 Sand, medium-fine grained, poorly, graded, uncossolidated, tan Y / N 20 45 25 Sand, fine grained, poorly, graded, uncossolidated, tan Y / N 20 45 25 Sand, fine grained, poorly, graded, uncossolidated, tan Y / N 45 55 10 Clayatiff, with very-fine sit, reddish brown Y / N 1 1 1 1 1 1 / N / 1 1 1 1 1 / N / / / / 1 1 1 1 1 / N / / / / 1 1 1 1 1 / N / / N / 1 1 1 <td>CTURE ZONES BEARING? WA all units) (YES / NO) BEA ZONE</td> <td colspan="4">INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)</td> <td>то</td> <td>FROM</td>	CTURE ZONES BEARING? WA all units) (YES / NO) BEA ZONE	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)				то	FROM
9 14 5 Sand, medium-fine grained, poorly, graded, semi cossolidated, tan Y / 14 20 6 Sand, medium-fine grained, poorly, graded, unconsolidated, tan Y / 20 45 25 Sand, fine grained, poorly, graded, unconsolidated, tan Y / 20 45 25 Sand, fine grained, poorly, graded, unconsolidated, tan Y / 45 55 10 Clay, stiff, with very-fine sit, reddish brown Y / 45 55 10 Clay, stiff, with very-fine sit, reddish brown Y / 46 1 1 1 Y N // 47 N 1 1 Y N // 48 1 1 Y N // N // 49 1 1 1 Y N // N 49 N 1 1 Y N // N 40 1 1 1	olidated, brown Y 🗸 N	, poorly. graded, unc	nedium-fine gr	Sand,	,	9	0
14 20 6 Sand, medium-fine grained, poorly, graded, unconsolidated, tan Y N 20 45 25 Sand, fine grained, poorly, graded, unconsolidated, tan Y N 45 55 10 Claystiff, with very-fine ait, roddish brown Y N 45 55 10 Claystiff, with very-fine ait, roddish brown Y N 46 1 1 Y N Y N 47 N 1 Y N Y N 48 1 1 Y N Y N 49 1 1 Y N Y N 49 1 1 1 Y N Y N 49 1 1 1 1 Y N Y N 49 1 1 1 1 Y N Y N 40 1 1 1 1 1 <	solidated, brown Y ✓ N	poorly, graded, semi	dium-fine grai	Sand, m	5	14	9
20 45 25 Samd, fine grained, poorly, graded, unconsolidated, tan Y / 45 55 10 Clay,stiff, with very-fine sit, reddish brown Y / 45 55 10 Clay,stiff, with very-fine sit, reddish brown Y / 45 55 10 Clay,stiff, with very-fine sit, reddish brown Y / 46 1 Y N / Y N 47 N Y N / Y N 47 N Y N / Y N 48 1 Y N / Y N 49 1 1 Y N / Y N 49 1 1 Y N / Y N 49 1 1 1 Y N / Y N 40 1 1 1 1 1 1 1	solidated, tan Y 🗸 N	ed, poorly, graded, u	medium-fine	Sand	6	20	14
45 55 10 Clay,stiff, with very-fine sit. reddish brown Y N 45 55 10 Clay,stiff, with very-fine sit. reddish brown Y N 46 10 Y N Y N 47 N Y N Y N 48 Y N Y N 49 Y N Y N 49 Y N Y N 49 Y N Y N 40 Y N Y N 41 Y N Y N 42 Y N Y N 43 Y N Y N 44 Y N Y N 45 Y N Y N 46 Y N Y N 47 N Y N Y 48 Y N Y N 49 Y N Y N 49 N Y N Y 49 N Y N Y 49 N Y N <	lated, tan Y ✓ N	oorly, graded, uncon	and, fine grain		25	45	20
WELL TEST TST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING. INCLUDING DISCHARGE METHOD WELL TEST TST RESULTS - ATTACH A COPY OF DATA. WELL TEST TST RESULTS - ATTACH A COPY OF DATA. WELL TEST TST RESULTS - ATTACH A COPY OF DATA. WELL TEST TST RESULTS - ATTACH A COPY OF DATA. WELL TEST TST RESULTS - ATTACH A COPY OF DATA. WELL TEST TST RESULTS - ATTACH A COPY OF DATA. UNSCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below ground surface(bgs), then hydrated bentonic chips ten feet bgs to surface. 10 Tomb Raider 1 Fed 1 PINNT NAMERS) OF DRILL RIG SUPERVISION, THAT PROVIDED ONSITE SUPERVISION OF WELL RECORD WITH THE STATE ENG AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE THAT HE OR SHE WILL RECORD WITH THE STATE ENG AND THE THAT HE OR SHE WILL RECORD WITH THE STATE ENG AND THE THAT HE OR SHE WILL RECORD WITH THE STATE ENG AND THAT HE OR SHE WILL RECORD WITH THE STATE ENG AND THAT HE OR SHE WILL RECORD WITH THE STATE ENG AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE PROSED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE THE VELL RECORD WITH THE STATE ENG AND THE THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE EN	own Y ✓ N	very-fine silt. reddis	Clay,stiff,		10	55	45
WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: TOTAL ESTIMATED WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD MISCELLANEOUS INFORMATION Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 10 Tomb Raider I Fed I Tomb Raider I Fed I THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF. THE FOREGOOING IS A TRU CORRCT RECORD POSITIE WEATHON Jackie D. Atkins 4.26/23 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE OR OSE INTERNAL USE WEATHON OF WELL SUPERVISION OF WELL SECORD WITH THE STATE ENG AND THE RECORD A COLL (version01/2 WEATHON Jackie D. Atkins 4.26/23 <	Y N						
Y N Y	Y N						
WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: TOTAL ESTIMATE DISCHARGE METHOD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below group durater (bgs), then hydrated benomic chips ten feet bgs to surface. To mob Raider I Fed I PRINT NAME(S) OF DRILL RIG SUPERVISION(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICE Shane Eldridge. Cameron Pruitt THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOON IS A TEU CORDECT HER BOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THAT PROVIDED ON SITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICE SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Y N						
with the set of the set	Y N						
Image: Signal State Sta	Y N						
with the second seco	Y N						
Image: Second	Y N						
Image: State Eldridge, Cameron Pruitt Y N Image: State Tributer State Tributer Y N Image: State Tributer Y N Y N Image: State Tribut	Y N						
Image: Second Structure of Device Described Hole and Sub Construction of Well Construction of Her Stare Transmission of Well Record of The Stare Transmission of Well Construction of Her Stare Transmission of Well Construction of Her Stare Transmission of Well Record of The Stare Transmission of The Stare Transmission of Well Record and Stare Transmission of The Stare Transmissi	Y N			-	3		
Image: State Eldridge, Cameron Pruitt Y N Image: State Plant Y Y N Image: State Plant Y Y N Image: State Plant Y N Y N Image: State Plant Y N Y N Image: State Plant Y N Y N Image: State Plant Y N <t< td=""><td>Y N</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Y N						
Image: State of the second sufficiency	Y N			-			
Y N Y	Y N						
Y N Y	Y N			1			
Y N WETHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: TOTAL ESTIMATE D PUMP AIR LIFT BAILER OTHER - SPECIFY: WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD. MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. IO Tomb Raider 1 Fed 1 PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICE Shane Eldridge, Cameron Pruitt THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Juck Attimut Jackie D. Atkins 4/26/23 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2 ULENO. C - OCI 7216 POD NO. TRIN O.	Y N						
WETHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: TOTAL ESTIMATED PUMP AIR LIFT BAILER OTHER - SPECIFY: TOTAL ESTIMATED WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 10 Tomb Raider 1 Fed 1 Tomb Raider 1 Fed 1 Tomb Raider 1 Fed 1 THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUC CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: 4/26/23 WEXAULT Jackie D. Atkins 4/26/23 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2 ILENO. C - OCIT 21/2 POD NO. TRN NO. 7/10/10/2	Y N						
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: TOTAL ESTIMATED WELL TOTAL ESTIMATE YIELD OF WATER-BEARING STRATA: WELL YIELD (gpm): 0.1 WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 10 TOTAL ESTIMATE YIELD OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICE Shane Eldridge, Cameron Pruitt THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUC CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THAT PROVIDED ON FWELL DRILLING: WELL WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jackie D. Atkins 4/26/23 OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2 ITEN NO. WR-20 WELL RECORD & LOG (Version 01/2	Y N					-	
WELL YIELD (gpm): 0.1 WELL YIELD (gpm): 0.1 WELL YIELD (gpm): 0.1 WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 10 Tomb Raider 1 Fed 1 PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICE Shane Eldridge, Cameron Pruitt THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Well Atting Jackie D. Atkins 4/26/23 SIGNATURE OF DRILLER / PRINT SIGNEE NAME OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2) ILENO. C - OKICT 72/6	TOTAL ESTIMATED	۸:	BEARING ST	OF WATER	STIMATE YIELI	ED TO E	METHOD USI
WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 10 MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 10 Tomb Raider 1 Fed 1 Tomb Raider 1 Fed 1 PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICE Shane Eldridge, Cameron Pruitt THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Juck Attinu Jackie D. Atkins 4/26/23 OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2) ILE NO. C - OCI 72/6 POD NO. TRN NO. THE INC.	WELL YIELD (gpm): 0	ECIFY:	OTHER	BAILER	IR LIFT		PUMP
MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to te below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 10 Tomb Raider 1 Fed 1 PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICE Shane Eldridge, Cameron Pruitt The UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUC CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Juck Atkins 4/26/23 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2) DO NO.	TESTING, INCLUDING DISCHARGE METHO WOOWN OVER THE TESTING PERIOD.	ECTED DURING W DISCHARGE AND	OF DATA CO ABLE SHOW	FACH A COP IME, AND A 1	RESULTS - AT T TIME, END T	TEST	WELL TEST
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICE Shane Eldridge, Cameron Pruitt THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jack Atkins 4/26/23 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2) ILE NO. C - OLITZIC	filled using drill cuttings from total depth to t ps ten feet bgs to surface.	d and soil boring b hydrated bentonite	l material rer urface(bgs), Fed 1	emporary we elow ground 0 omb Raider	FORMATION: 1 b 1 T	EOUS IN	MISCELLANE
Shane Eldridge, Cameron Pruitt THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUCORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jackie D. Atkins 4/26/23 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE DR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2) LE NO. C - OCH 726	OF WELL CONSTRUCTION OTHER THAN LIC	NSITE SUPERVISIO	AT PROVIDI	RVISOR(S) T	RILL RIG SUPP	(S) OF D	PRINT NAME
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRU CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENG AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jackie D. Atkins 4/26/23 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2) TILE NO. C - OCH 726					ron Pruitt	e. Came	Shanc Eldridg
SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2) ILE NO. C - OCI 72/2	DGE AND BELIEF, THE FOREGOING IS A TRU THIS WELL RECORD WITH THE STATE EN 4/26/23	IIS OR HER KNOW HE OR SHE WILL OF WELL DRILLI tkins	O THE BEST IOLE AND TH ER COMPLET Jackie	FIES THAT, DESCRIBED 30 DAYS AFT	HEREBY CERTI F THE ABOVE DLDER WITHIN	SIGNED I CORD C RMIT HC	THE UNDERS CORRECT RE AND THE PER Jack Atte
OR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 01/2 ILE NO. C - OL 726 POD NO. TRN NO. 74 C 100	DATE		SIGNEE NAM	ER / PRINT	URE OF DRILL	SIGNAT	
ILE NO. C-OUT26 POD NO. 1 TRN NO. THEIRO	WR-20 WELL RECORD & LOG (Version 01)					L USE	OSE INTERN/
	TRN NO. TUSILO). 	PO		6	477	ENO. (-C



NEW MEXICO OFFICE OF THE STATE ENGINEER WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT erstate S (check applicable box): For fees, see State Engineer website: http://www.ose.state.nm.us/ **Pollution Control** Purpose: Ground Source Heat Pump And/Or Recovery Other(Describe): Groundwater Determination Exploratory Well (Pump test) **Construction Site/Public** Works Dewatering Monitoring Well Mine Dewatering A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive. Temporary Request - Requested Start Date: **Requested End Date:** Plugging Plan of Operations Submitted? 🔳 Yes No No

1. APPLICANT(S)

DGE D/I MAR 27 2023 ML:24

	Name:	
check here if Agent 📋	Contact or Agent:	check here if Agent
	Mailing Address:	
	City:	
Zip Code: 88210	State:	Zip Code:
🗌 Home 🔳 Cell	Phone: Phone (Work):	Home Cell
	E-mail (optional):	
	check here if Agent Zip Code: 88210 Home Cell	Name: check here if Agent [] Contact or Agent: Mailing Address: Mailing Address: City: City: Zip Code: State: 88210 Phone: Home I Cell Phone: Phone (Work): E-mail (optional):

FOR OSE INTERNAL USE	Application for Permit, Form WR-07	7, Rev 11/17/16
File No.: C-4726	Tm. No.: 745169	Receipt No.: 245601
Trans Description (optional):	ION	
Sub-Basin:	PCW/LOG Due I	Date: 328 24
		Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

(Lat/Long - WGS84). District II (Roswell) and Dist	rict VII (Cimarron) c (Feet)	ustomers, provide JTM (NAD83) (Mete	a PLSS location in addition to above.
MM West Zone NM East Zone NM Central Zone	Ę	JZone 12N JZone 13N	1/10 th of second)
Well Number (If known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves , Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-4726 POD1(TW-1)	103°43'47.22"	32°20'23.65"	NW L2 Sec.1 T23S R31S NMPM
NOTE: If more well location Additional well descriptions	s need to be describ are attached:	ved, complete form Yes I No	WR-08 (Attachment 1 – POD Descriptions) If yes, how many
Other description relating well omb Raider 1 Fed 1 O	to common landmark	ks, streets, or other:	DSE 007MAR 27/2023 #11/24
Well is on land owned by: Bur	eau of Land Manager	nent	
Vell Information: NOTE: If n If yes, how many	nore than one (1) we	Il needs to be des	cribed, provide attachment. Attached? Yes No
Approximate depth of well (fee	et): 55	C	Dutside diameter of well casing (inches): 6.5" boring
Driller Name: Jackie D. Atkins		r	Driller License Number: 1249

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

A Soil Boring to determine depth up to 55 feet. Temporary PVC well material will be placed to total depth and secured at surface. Temporary well will be in place for minimum of 72 hours. If ground water is encountered the boring will be plugged immediately using augers as tremie to land a slurry of Portland TYPE I/II Neat cement less than 6.0 gallons of water per 94 lb. sack. If no water is encountered then drill cuttings will be used to (10) ten feet of land surface and plugged using hydrated bentonite.

FOR OSE INTERNAL USE	Application for Permit, Form WR-07
File No.: C-4726 7001	Tm No.: 7451601

Page 2 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory:	Pollution Control and/or Recovery:	Construction	Mine De-Watering:
	Include a plan for pollution	De-Watering:	Include a plan for pollution
description of	control/recovery, that includes the	Include a description of the	control/recovery, that includes the following:
any proposed	following:	proposed dewatering	A description of the need for mine
pump test, if	A description of the need for the	operation.	dewatering.
applicable	pollution control or recovery operation	The estimated duration of	The estimated maximum period of time
	The estimated maximum period of	the operation.	for completion of the operation.
	time for completion of the operation.	The maximum amount of	The source(s) of the water to be diverted.
	The annual diversion amount.	water to be diverted.	The geohydrologic characteristics of the
	The annual consumptive use	A description of the need	aquifer(s).
	amount.	for the dewatering operation,	The maximum amount of water to be
	The maximum amount of water to be	and,	diverted per annum.
	diverted and injected for the duration of	A description of how the	The maximum amount of water to be
	the operation.	diverted water will be disposed	diverted for the duration of the operation.
	The method and place of discharge.	of.	The quality of the water.
Monitoring:	The method of measurement of	Ground Source Heat Pump:	The method of measurement of water
Include the	water produced and discharged.	Include a description of the	diverted.
reason for the	The source of water to be injected.	geothermal heat exchange	The recharge of water to the aquifer.
monitoring	The method of measurement of	project,	Description of the estimated area of
well, and,	water injected.	The number of boreholes	hydrologic effect of the project.
The	The characteristics of the aquifer.	for the completed project and	The method and place of discharge.
duration	The method of determining the	required depths.	An estimation of the effects on surface
of the planned	resulting annual consumptive use of	The time frame for	water rights and underground water rights
monitoring.	water and depletion from any related	constructing the geothermal	from the mine dewatering project.
	stream system.	heat exchange project, and,	A description of the methods employed to
	Proof of any permit required from the	The duration of the project.	estimate effects on surface water rights and
	New Mexico Environment Department.	Preliminary surveys, design	underground water rights.
	An access agreement if the	data, and additional	Information on existing wells, rivers,
	applicant is not the owner of the land on	information shall be included to	springs, and wetlands within the area of
Later and the second	which the pollution plume control or	provide all essential facts	hydrologic effect.
	recovery well is to be located.	relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Dale Woodall (Devon Energy)

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Dale Woodall 072 12 45 MDT

USE OT MAR 27 2023 ML/24

Applicant Signature	Applicant Signal	ture
	ACTION OF THE STATE ENGINEER	
	This application is:	
	epproved	denied
provided it is not exercised to the detriment of Mexico nor detrimental to the public welfare a	any others having existing rights, and is no nd further subject to the <u>attached</u> condition	ot contrary to the conservation of water in New s of approval.
Witness my hand and seal this day	of March 20 23	_ , for the State Engineer,
Mike A. Hammon ?	P.E, State Engineer	
By: K. Parcht	Kcehyc	ip Parekh
Title: Water Resource	ManaucerI	
Print	7	
	FOR OSE INTERNAL USE	Application for Permit, Form WR-0
	File No .: (-4726 PM)	Tm No.: 745160

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04726 PO1

File Number: <u>C 04726</u> Trn Number: <u>745169</u>

page: 1

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04726 PO1

File Number: <u>C 04726</u> Trn Number: <u>745169</u>

page: 2

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04726 POD1 must be completed and the Well Log filed on or before 03/28/2024.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:		Date Rcvd. Corrected:
Formal Application Rcvd:	03/27/2023	Pub. of Notice Ordered:
Date Returned - Correction:		Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 29 day of Mar A.D., 2023

Mike A. Hamman , P.E. , State Engineer

By: KASHYAP PAREKH

Trn Desc: C 04726 PO1

File	Number:	C 04726
Trn	Number:	745169

page: 3



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220-6292

In Reply Refer To: 3162.4 (NM-080) NMNM-22080

March 21, 2023

NM Office of the State Engineer 1900 W. Second St. Roswell, NM 88201

Re: Tomb Raider 1 Fed 1 Section 1, T23S-R31E 30-015-42655 Eddy County, New Mexico

DEE DIT MAR 27 2023 PM1/24

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 55 feet below ground surface. The boring will be secured and left open for 72 hours at which time Devon Energy Production Company will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type I/II neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

Crisha Morgan

Crisha A. Morgan Certified Environmental Protection Specialist





Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

Page 51 of 89

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 745169 File Nbr: C 04726

Mar. 29, 2023

DALE WOODALL DEVON ENERGY 6488 7 RIVERS HWY ARTESIA, NM 88210

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Azucena Ramirez (575)622-6521

Enclosure

explore

	File Number:
NEW MEXICO OFFICE OF THE STATE APPLICATION FOR PERMIT TO USE UNDERG	E ENGINEER 2-2430 ⁶ GROUND WATERS
IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, or 72- e. rec'd October 9, 2007	2-12-1.3 NEW MEXICO STATUTES
1. APPLICANT	
Name: United States - Bureau Of Land Management - Carlsbad Field Of	fice
Address: <u>620 E. Greene Street</u>	
City: <u>Carlsbad</u> State: NM Zin: 88220	
Phone: <u>505-234-5942</u> Phone: <u>505-234-2220</u>	
Contact: <u>Steve Daly</u> <u>Rick Friese</u>	
2. LOCATION OF WELL (A or B required, C required, if applicable,	D required)
A. NAD 83 (Select Appropriate Coordinate System and Zone)	State Plane NM West Zone
NOTE: State Plane units – feet, UTM units - meters X = 614968 79 $V = 357787968$	NM Central Zone
X ~ 014900.77, 1 - <u>3577077,00</u>	UTMNM East Zone
B. Latitude: <u>32</u> <u>d</u> <u>19</u> <u>m</u> <u>54.22</u> <u>s</u>	X_UTM Zone 13N
Longitude: 103 d 46 m -42.80 42.84	UTM Zone 12N
(Enter Lat/Long to at least 1/10 of a second)	
Grant (If Applicable)	
C. Subdivision Recorded in Count	ty of
Lot No, Block No	
D. On land owned by: <u>United States – Bureau Of Land Managem</u>	nent
E. Tract No, Map No of the	Hydrographic Survey
F. Is this well within a municipality? <u>NO</u> if yes, where?	
G. Give State Engineer File Number if existing well: New well to be	e drilled at location below:
H. <u>SE ¼ NW ¼ SE¼</u> Section <u>4</u> Township <u>23 S.</u>	Range <u>31 E</u>
I. Other	
3. USE OF WATER (check use applied for)	. * 0
Domestic use for one household	
X Livestock watering	50
Domestic well to accompany a house or other dwelling unit of	constructed for sale.
Domestic use to serve households	
Drinking and sanitary uses that are incidental to the operation non-profit facility	ns of a governmental, commercial, or
Prospecting, mining or drilling operations to discover or deve	elop natural resources
Construction of public works, highways and roads	5
Page 1 of 2	2. A.
Trn Desc:File Number:	C-3351 /1 / 100
Log Due Date: <u>11/30/2008</u> Trn Number: Form: wr-01	<u>393496 YETZ89</u>

Released to Imaging: 3/3/2025 7:42:18 AM



C-3351

NEW MEXICO OFFICE OF THE STATE ENGINEER	
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS	

IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, or 72-12-1.3 NEW MEXICO STATUTES

4. WELL INFORMATION

	WD#:		
pproximate depth	feet; Outside diameter of casing	inches.	
Replacement well			
Repair or Deepen: Clean out well to or Deepen well from Other	riginal depth to feet		
Supplemental well			
ADDITIONAL STATEMENTS OR I	EXPLANATIONS:	20	Re
		<u> </u>	122
	ACKNOWLEDGEMENT		
For- I, <u>Jim Stovall</u>	ACKNOWLEDGEMENT	-1 = -2 E	
For- I, Jim Stovall foregoing statemen	ACKNOWLEDGEMENT <u>– Field Manager - CFO</u> affirm that the (Please Print) ts are true to the best of my knowledge and belief.		
For I, Jim Stovall foregoing statemen Q. D. Whitlool G	ACKNOWLEDGEMENT <u>- Field Manager - CFO</u> affirm that the (Please Print) ts are true to the best of my knowledge and belief.	-9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -	

ACTION OF THE STATE ENGINEER

This application is approved subject to the attached general and specific conditions of approval.

Witness my hand and seal this <u>16th</u> day of <u>November</u>, 20<u>07</u>

John R. D'Antonio, Jr. P.E., State Engineer

Il Duen By: Duemling 6

Page 2 of 2

Trn Desc:	Stock	File Number:	C-3351
Log Due Date:	11/30/2008	Trn Number:	393496
Form: wr-01			

NEW MEXICO STATE ENGINEER OFFICE APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (A thru O)

- The maximum amount of water that may be appropriated under this 06-A permit is 3.000 acre-feet in any year.
- 06-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- 06-C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- 06-D The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- 06-E To request a change to the use of water authorized under this permit, the permittee shall file an application with the State Engineer.
- An application for a new 72-12-1.1 domestic well permit where the 06-F proposed point of diversion is to be located on the same legal lot of record as an operational 72-12-1.1 domestic well shall be treated as an application for a supplemental well.
- 06-G If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.
- 06-H The drilling of the well and amount and uses of water permitted are subject to such limitations as may be imposed by a court or by lawful municipal or county ordinance which are more restrictive than the conditions of this permit and applicable State Engineer regulations.
- 06-I The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

page: 1

Trn Desc: C 03351 Log Due Date: 11/30/2008 Form: wr-01

File Number: C 03351 Trn Number: 393496

Released to Imaging: 3/3/2025 7:42:18 AM



GENERAL CONDITIONS OF APPROVAL (Continued)

06-J The well shall be set back a minimum of 50 ft. from an existing well of other ownership unless a variance has been granted by the State Engineer. The State Engineer may grant a variance for a replacement well or to allow for maximum spacing of the well from a source of groundwater contamination. The well shall be set back from potential sources of contamination in accordance with rules and regulations of the NM Environment Department. 06-K Pursuant to section 72-8-1 NMSA, the permittee shall allow the State Engineer and his representatives entry upon private property for the performance of their respective duties, including access to the well for meter reading and water level measurement. 06-L The permit is subject to cancellation for non-compliance with the conditions of approval or if otherwise not exercised in accordance with the terms of the permit.

- 06-M The right to divert water under this permit is subject to curtailment by priority administration as implemented by the State Engineer or a court.
- 06-N In the event of any change of ownership to this permit the new owner shall file a change of ownership form with the State Engineer in accordance with Section 72-1-2.1 NMSA.
- 06-0 This well permit shall automatically expire unless the well is completed and the well record is filed with the State Engineer within one year of the date of issuance of the permit. It is the responsibility of the permit holder to ensure that the well record has been properly filed with the State Engineer.

SPECIFIC CONDITIONS OF APPROVAL

- 06-4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- 06-18 Any diversion of water made in excess of the authorized maximum diversion amount shall be repaid with twice the amount of the over-diversion during the following calendar year. Repayment shall be made by either: (a) reducing the diversion from the well that is the source of the over-diversion; or (b) acquiring or leasing a valid, existing consumptive use water right in an amount equal to the repayment amount and submitting to the State Engineer for his approval a plan for the proposed repayment.

Trn Desc: C 03351 Log Due Date: <u>11/30/2008</u> Form: wr-01

Released to Imaging: 3/3/2025 7:42:18 AM

File Number: <u>C 03351</u> Trn Number: <u>393496</u> Page 55 of 89



NEW MEXICO STATE ENGINEER OFFICE APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

LOG

This permit will automatically expire unless the well C 03351 POD1 is completed and the well record filed on or before 11/30/2008.

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions listed above.

Witness my hand and seal this 15 day of Nov A.D., 2007

John R. D Antonio, Jr., P.E., State Engineer

By: Bill Duemling

Trn Desc: <u>C 03351</u> Log Due Date: <u>11/30/2008</u> Form: wr-01 File Number: <u>C 03351</u> Trn Number: <u>393496</u>

Released to Imaging: 3/3/2025 7:42:18 AM

NEW MEKICO OFFICE OF STATE ENGINEER

secator Tool Report





 WR File Number: C-03351
 Scale: 1:15,745

 Northing/Easting: UTM83(92) (Meter):
 N: 3,577,862
 E: 614,916

 Northing/Easting: SPCS83(92) (Feet):
 N: 484,860
 E: 712,553

 GW Basin: Carlsbad
 E: 712,553
 E: 712,553

Page 2 of 2

Print Date: 11/16/2007



T. 23S, R. 31E, Section 4: SE/4

Réleased to Imaging: 3/3/2025 7:42:18 AM

Trn Nbr: 393496

File Nbr: C 03351



John[®]R. D Antonio, Jr., P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Nov. 16, 2007

STEVE DALY US BLM CRLSB FLD OFFICE 620 E GREENE STREET CARLSBAD, NM 88220

Greetings:

Enclosed is your copy of the 72-12-1 Permit which has been approved. Your attention is called to the Specific and the General Conditions of Approval of this permit.

In accordance with General Condition C, a well record shall be filed in this office within twenty (20) days after completion of drilling. The well record is proof of completion of the well. IT IS YOUR RESPONSIBILITY TO ASSURE THAT THE WELL LOG BE FILED WITHIN 20 DAYS OF DRILLING THE WELL.

This permit will expire on or before 11/30/2008, unless the well has been drilled and the well log filed in this office.

Sincerely,

Bill Duemling

(505)622-6521

Enclosure

cc: Santa Fe Office

wr_01app

Water Right Summary

WR File Number:	C 03351	Subbasin:	С	Cross Reference:
Primary Purpose:	STK 72-12-1 LIVESTOCK WATERING			
Primary Status:	PMT Permit			
Total Acres:		Subfile:		Header:
Total Diversion:	3.000	Cause/Case:		
Owner:	BUREAU OF LAND MANAGEMENT	Owner Class:	Owne r	
Contact:	STEVE DALY			

Documents on File

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.		From/To	Acres	D
🛞 <u>get images</u>	<u>469289</u>	72121	2007-11-15	PMT	LOG	C 03351		т		3.
•							,		_	▶

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	x	Y	Мар	Other Location Desc
<u>C 03351</u>		Shallow	SE	NW	SE	04	23S	31E	614916.6	3577861.1	٠	
* UTM location was derived from PLSS - see Help												

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

1/18/25 10:34 PM MST

Water Rights Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | Disclaimer | Contact Us | Help | Home |

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F Frost-free period: 190 to 230 days Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

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

Typical profile

H1 - 0 to 7 inches: fine sand H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: R070BD005NM - Deep Sand Hydric soil rating: No

Description of Berino

Setting

Landform: Plains, fan piedmonts Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 50 inches: fine sandy loam H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024 USDA Natural Resources Conservation Service

Ecological site R070BD003NM Loamy Sand

Accessed: 01/19/2025

General information

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

Figure 1. Mapped extent

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

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

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

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

Table 2. Representative physiographic features

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

Climatic features

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

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

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

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

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

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

Table 3. Representative climatic features

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

Influencing water features

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

Soil features

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

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

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

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

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

Characteristic soils are: Maljamar Berino Parjarito Palomas Wink Pyote

Table 4. Representative soil features

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

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

0%

Ecological dynamics

(Depth not specified)

Subsurface fragment volume >3"

Overview

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

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

State and transition model

MLRA-42, SD-3, Loamy Sand



1a. Drought, over grazing, fire suppression.

1b. Brush control, prescribed grazing

2.a Severe loss of grass cover, fire suppression, erosion.2b. Brush control, seeding, prescribed grazing.

3. Continued loss of grass cover, erosion.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

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

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

Table 5. Annual production by plant type

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

Table 6. Ground cover

Tree foliar cover				
Shrub/vine/liana foliar cover				
Grass/grasslike foliar cover				
Forb foliar cover				
Non-vascular plants	0%			
Biological crusts				
Litter				
Litter	50%			
Litter Surface fragments >0.25" and <=3"	50% 0%			
Litter Surface fragments >0.25" and <=3" Surface fragments >3"	50% 0% 0%			
Litter Surface fragments >0.25" and <=3" Surface fragments >3" Bedrock	50% 0% 0% 0%			
Litter Surface fragments >0.25" and <=3" Surface fragments >3" Bedrock Water	50% 0% 0% 0%			

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

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

State 2 Grass/Shrub

Community 2.1 Grass/Shrub

Grass/Shrub



Aldesquite com Shelt gra with some dropseeds, threasures, and statiated and chinary oak lines own low to moderate

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

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

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

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

Additional community tables

Table 7. Community 1.1 plant community composition

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

Released to Imaging: 3/3/2025 7:42:18 AM

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

Animal community

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

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

Hydrological functions

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

Recreational uses

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

Wood products

This site has no potential for wood products.

Other products

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

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index Ac/AUM $100 - 76\ 2.3 - 3.5$ $75 - 51\ 3.0 - 4.5$ $50 - 26\ 4.6 - 9.0$ $25 - 0\ 9.1$ +

Inventory data references

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

Other references

Literature Cited:

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

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

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

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

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

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

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

Contributors

Don Sylvester Quinn Hodgson

Rangeland health reference sheet

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

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

Indicators

- 1. Number and extent of rills:
- 2. Presence of water flow patterns:
- 3. Number and height of erosional pedestals or terracettes:
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
- 5. Number of gullies and erosion associated with gullies:
- 6. Extent of wind scoured, blowouts and/or depositional areas:
- 7. Amount of litter movement (describe size and distance expected to travel):
- 8. Soil surface (top few mm) resistance to erosion (stability values are averages most sites will show a range of values):
- 9. Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
- 10. Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
- 11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
- 12. Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):

Dominant:

Sub-dominant:

Other:

Additional:

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

17. Perennial plant reproductive capability:



Tomb Raider 1 Fed 1H Battery - Geological Map

1/19/2025, 12:56:32 AM Lithologic Units Plays—Alluvium and evaporite deposits (Holocene) Water—Perenial standing water

Qa-Alluvium (Holocene to upper Pleistocene)

Lithological Unit: Qep - Eolian and piedmont deposits (Holocene to middle Pleistocene) — Interlayed eolian sands and piedmont-slope deposits



ArcGIS Web AppBuilder

ATTACHMENT 3: CORRESPONDENCE

SIGN-IN HELP

Searches Operator Data

Hearing Fee Application

OCD Permitting

Home Searches Incidents Incident Details

NAPP2427052436 TOMB RAIDER 1 FED 1H BATTERY @ 0

General Incident Information Quick Links General Incident Information Site Name: TOMB RAIDER 1 FED 1H BATTERY Well: Materials Events Facility: [fAPP2130648375] TOMB RAIDER 1 FED 1H BATTERY [6137] DEVON ENERGY PRODUCTION COMPANY, LP Orders **Operator:** Action Status Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Status: Closure Report from the operator Associated Images Type: Produced Water Release Severity: Major • Facility Files (13) Surface Incident Files (3) Owner: District: Artesia Federal County: Eddy (15) New Searches • New Facility Search & Incident New Incident Search • New Operator Search & Location: L-01-23S-31E 218 FNL 1967 FEL Lat/Long: 32.3401207,-103.7293257 NAD83 • New Pit Search b • New Spill Search 🏷 Directions: • New Tank Search & New Well Search Search Notes Source of Action / **Referral:** Industry Rep **Escalation: Resulted In Fire: Resulted In Injury:** Will or Has Reached Endangered Public Health: Fresh Water Contamination: Watercourse: **Property Or Environmental** Damage:

•

SIGN-IN HELP

			Searches	Operator Data	Hearing Fee Application
Date of Discovery:	09/26/2024	Initial G-141 Report Due:	10/11/2024		
		Remediation Closure Report Due:	03/17/2025	i	

Incident Dates				
Туре	Action	Received	Denied	Approved
Liner Inspection Notice	[<u>413566]</u>	12/18/2024		12/18/2024
Initial C-141 Report	[<u>388309]</u>	09/30/2024		09/30/2024
Notification	[<u>387510]</u>	09/26/2024		09/26/2024

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incident Materials							
				Vo	lume		
Cause	Source	Material	Unk.	Released	Recovered	Lost	Units
Equipment Failure	Valve	Produced Water		75	75	0	BBL
	1	I			I	1	
The concentration of	dissolved ch	nloride in the produc	ed water	>10,000 mg/l:	Yes		No
Cause of Release OF 75 bbls PW release	R Additional ed into lined	Details provided for containment. pinho	materials le leak in	released: victaulic ball v	alve. 75 bbls re	covered	

Released to Imaging: 3/3/2025 7:42:18 AM

SIGN-IN HELP

	Searches	Operator Data	Hearing Fee Application
12/18/2024	The (12/18/2024, C-141L) application [413566] was assigned to this incident.		
12/16/2024	Your 90-day time extension request is approved. Email submitted by operator on 12/16/2024 stated, "This was a spill inside of lined containment that needed a liner inspection. Due to change in environmental employees this incident was not properly assigned and will be completed after the holidays in 2025". Remediation Due date updated to March 17, 2025.		
09/30/2024	The (09/30/2024, C-141) application [<u>388309</u>] was accepted by OCD. The operator was emailed with details of this event.	_	
09/30/2024	An application [<u>388309</u>] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.		
09/30/2024	The (09/30/2024, C-141) application [388309] was assigned to this incident.		
09/26/2024	The (09/26/2024, NOR) application [<u>387510</u>] was assigned to this incident.		
09/26/2024	Release discovered by the operator.		
09/26/2024	New incident created by the operator, upon the submission of notification of release.		

Incident Severity

Major release as defined by 19.15.29.7(A)	From paragraph A. "Major release" determine using:
NMAC?	(1) an unauthorized release of a volume, excluding gases, of 25 barrels or
🗹 Yes 🔲 No	more.

Incident Corrective Actions

Initial Response

•

SIGN-IN HELP

	Searches	Operator Data	Hearing Fee Application
No site characterization data was found for this incident.			
Remediation Plan			
Have the lateral and vertical extents of contamination been fully delineated?	🗌 Yes 🜌	No	
On what estimated date will the remediation commence?			
On what date will (or did) the final sampling occur?			
On what date will (or was) the remediation complete(d)			
Release is indicated as not yet fully delineated. Any Deferral Requests received may not b	e granted for this inciden	t.	
No remediation closure report data was found for this incident.			
No reclamation report data was found for this incident.			
No re-vegetation report data was found for this incident.			
Orders			

No Orders Found

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012 1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

EMNRD Home OCD Main Page OCD Rules Help



RE: [EXTERNAL] nAPP2427052436 Tomb Raider 1 Fed 1H Battery Liner Notification

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

- Date Wed 12/18/2024 1:55 PM
- To Monica Peppin <Monica.Peppin@soudermiller.com>
- Cc Stephanie Hinds <stephanie.hinds@soudermiller.com>

Submitted to portal 12/18/2024

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



From: Monica Peppin <Monica.Peppin@soudermiller.com>
Sent: Wednesday, December 18, 2024 1:51 PM
To: Raley, Jim <Jim.Raley@dvn.com>
Cc: Stephanie Hinds <stephanie.hinds@soudermiller.com>; BLM Spill Email <blm_nm_cfo_spill@blm.gov>; ocd.enviro@emnrd.nm.gov
Subject: [EXTERNAL] nAPP2427052436 Tomb Raider 1 Fed 1H Battery Liner Notification

All:

SMA anticipates conducting liner inspection activities at the following site on Saturday, December 21, 2024: Proposed Date: 12.21.2024 Proposed Time Frame: 10:30 AM Site Name: Tom Raider 1 Fed 1H Battery Incident Number: nAPP2427052436

API: fAPP2130648375

Liner Inspection Notification			
Incident ID and Site Name:	Tomb Raider 1 Fed 1H Battery/nAPP2427052436		
API # and Corresponding Agency:	fAPP2130648375/NMNM0404441 BLM/Federal		
Question	Answer (Fill In)		
What is the liner inspection surface area in square feet (secondary containmet):	4953 sq ft		
Have all the impacted materials been removed from the liner and cleaned?	Yes - 10.2.2024		
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC: 48 HOURS PRIOR TO INSPECTION	12.21.2024		
Time liner inspection will commence:	10:30 AM		
Please provide any information necessary for observers to contact inspector: (Name and	Monica Peppin 575.909.3418		

Received by OCD: 2/25/2025 6:29:50 AM

Number)	
Please provide any information necessary for navigation to liner inspection site and coordinates (Lat/Long)	Intersection 128/Red Rd travel north for 6.45 miles, turn right/east onto lease road travel 0.39 miles, follow turn to the right/south travel 0.15 miles, turn left/facing southeast travel 0.18 miles, turn right/south travel 0.11 miles, turn left/southeast travel 0.09 miles and end on site 32.340535, -103.729657

Thank you, MP



Monica Peppin, A.S.

Project Manager

Direct/Mobile: 575.909.3418

Office: 575.689.7040

Stronger Communities by Design

201 S Halagueno St.

Carlsbad, NM 88220

0

www.soudermiller.com

in

Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX Surveying Firm (10162200), WY Engineering/Surveying Firm (S-1704)

Notice of Confidentiality and Privileged Status: This electronic mail message, including all attachments, is for the sole use of the intended recipient(s) and may contain confidential and/or privileged information or otherwise may be protected from disclosure. Any unauthorized review, use, disclosure, distribution or actions which rely on the contents of this information is prohibited. If you are not the intended recipient, please contact the sender and delete the message and any attachment(s) from your system.

Statement on Viruses and Harmful Software: While the message and attachment(s) have been scanned with anti-virus software, SMA does not guarantee that this message or any attachment(s) is free of computer viruses or other harmful software. SMA does not accept liability for any damages caused by any computer virus or other harmful software transmitted herewith.

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

Page 84 of 89 QUESTIONS

Action 434894

QU	EST	IONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	434894
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2427052436
Incident Name	NAPP2427052436 TOMB RAIDER 1 FED 1H BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2130648375] TOMB RAIDER 1 FED 1H BATTERY

Location of Release Source

Please answer all the questions in this group.	

Site Name	TOMB RAIDER 1 FED 1H BATTERY
Date Release Discovered	09/26/2024
Surface Owner	Federal

Incident Details

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 75 BBL Recovered: 75 BBL Lost: 0 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	75 bbls PW released into lined containment. pinhole leak in victaulic ball valve. 75 bbls recovered	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 2

Action 434894

QUESTIONS (continued)	
Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	434894
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped True	
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remedi actions to date in the follow-up C-141 submission. If remedial efforts have been successfully complet Subsection A of 19.15.29.11 NMAC) please prepare and attach all information needed for closure of	Not answered. ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 02/25/2025

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	434894
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

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

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

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes complete which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	10/02/2024
On what date will (or did) the final sampling or liner inspection occur	12/21/2024
On what date will (or was) the remediation complete(d)	12/21/2024
What is the estimated surface area (in square feet) that will be remediated	4953
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at th	ne time of submission and may (be) change(d) over time as more remediation efforts are completed.

The Section and the submission and the section and the section and the submission and the submission and the section and the submission and the section and the section and the submission and the section and

QUESTIONS, Page 3

Action 434894

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

Page 87 of	89
QUESTIONS, Page 4	

Action 434894

QUESTIONS (continued)		
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 434894	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Remediation Plan (continued) Please answer all the questions that apply or are indicated. This information must be provided to th This remediation will (or is expected to) utilize the following processes to remediate	e appropriate district office no later than 90 days after the release discovery date. e / reduce contaminants:	
(Select all answers below that apply.)		
Is (or was) there affected material present needing to be removed	Yes	
Is (or was) there a power wash of the lined containment area (to be) performed	Yes	
OTHER (Non-listed remedial process)	Not answered.	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed e which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
I hereby certify that the information given above is true and complete to the best of my to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 repor local laws and/or regulations.	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: iim.raley@dyn.com	

Date: 02/25/2025 The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 6

Action 434894

Page 88 of 89

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	434894
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

iner Inspection Information	
Last liner inspection notification (C-141L) recorded	413566
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	12/21/2024
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	4953

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
What was the total surface area (in square feet) remediated	4953
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above) The responsible party must attach information demonstrating they have complied with all applicable of comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field.	Secondary Containment inspection completed. No breach through liner
final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.	
I hereby certify that the information given above is true and complete to the best of my to report and/or file certain release notifications and perform corrective actions for releas the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 repor local laws and/or regulations. The responsible party acknowledges they must substanti prior to the release or their final land use in accordance with 19.15.29.13 NMAC includi	knowledge and understand that pursuant to OCD rules and regulations all operators are required isses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	434894
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS	

Created By	Condition	Condition Date
nvelez	Liner inspection approved, release resolved.	3/3/2025

CONDITIONS

Page 89 of 89

Action 434894