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September 16, 2025

EMNRD – Oil Conservation Division  
506 W. Texas  
Artesia, New Mexico 88210

SUBJECT: Liner Inspection and Closure Report for Ragin Cajun 12 CTB 3 –August 28, 2025 Site Visit

Incident IDs: nAPP2516154121/nAPP2520944996/nAPP2521924784  
Facility ID (Name): fAPP2423338309 (RAGIN CAJUN 12 CTB 3)  
Facility Location: Unit H of Section 12, Township 26 South, Range 34 East, Lea County, New Mexico  
Facility GPS Coordinates: 32.061330, -103.419596

**Introduction**

KLJ Engineering (KLJ) has prepared this report on behalf of Devon Energy Production Company, LP (Devon) to detail the recent liner inspection conducted at the Ragin Cajun 12 CTB 3 (Site) on August 28, 2025. The inspection followed the releases of produced water that occurred on June 9, 2025 (Incident ID nAPP2516154121), July 27, 2025 (Incident ID nAPP2520944996), and August 6, 2025 (Incident ID nAPP2521924784).

**Site Information and Background**

The Site is located approximately 12.88 miles southwest of Jal, New Mexico, on Bureau of Land Management (BLM) property. The Site lies within Unit H, Section 12, Township 26 South, Range 34 East, in Lea County. KLJ conducted a liner inspection and associated site characterization in accordance with 19.15.29.11 and 19.15.29.12 of the New Mexico Administrative Code (NMAC) to assess the integrity of the containment system and evaluate any potential environmental impacts resulting from a release.

**Release Descriptions and Immediate Response**

**INCIDENT ID NAPP2516154121**

On June 9, 2025, a Devon lease operator discovered a leak on the main seal of a water transfer pump located within the secondary containment, resulting in the release of approximately 14 barrels (bbls) of produced water. On June 10, 2025, Devon Energy submitted the initial Notice of Release (NOR) to the New Mexico Energy, Minerals, and Natural Resources Department – Oil Conservation Division (NMOCD) via the Operator’s Electronic Permitting and Payment Portal. Subsequently, a Form C-141 was submitted on June 18, 2025.

**INCIDENT ID NAPP2520944996**

On July 27, 2025, a Devon lease operator discovered a pinhole leak on a water transfer pump swedge located within the secondary containment, resulting in the release of approximately 37 bbls of produced water. The NOR for this release was submitted on July 28, 2025 followed by the submission of a Form C-141 on July 29, 2025.

**INCIDENT ID NAPP2521924784**

On August 6, 2025, a Devon lease operator identified a pinhole leak on a water trunkline located within the secondary containment, resulting in the release of approximately 59 bbls of produced water. The NOR for this release was submitted on August 7, 2025 followed by the submission of a Form C-141 on August 12, 2025.

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For the incidents that occurred on July 27, 2025 (Incident ID nAPP2520944996) and August 6, 2025 (nAPP2521924784), each resulted in the exceedance of 25 bbls and therefore classified as *major releases* under 19.15.29.7(A)(1) NMAC, requiring enhanced notification procedures. In compliance with 19.15.29.8(A)(1) NMAC, Devon provided verbal and email notification to the NMOCD Environmental Bureau Chief and the appropriate Division District Office within 24 hours of discovery for both events. Pursuant to 19.15.29.9(A)(1) and 19.15.29.10(A)(1)(2) NMAC, Form C-141 submissions for each incident confirmed initial notifications and included updated release details, thereby fulfilling the reporting obligations for major releases reporting requirements.

### **Immediate Response Actions**

For all three releases, the operator completed the following initial actions:

- Isolated and eliminated the source of the release.
- Estimated the volume released.
- Recovered released fluids to the extent practicable.

### **Site Characterization Summary**

The Site lies within eolian sand deposits. Terrain for the Site and immediate surrounding area includes plains, uplands, dunes, interdunal areas, and fan piedmonts at elevations ranging from 2,800 to 5,000 feet above mean sea level (amsl). Parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock, with 8 to 13 inches of average annual precipitation. Soil within the Site tends to be well-drained, with negligible runoff potential and low water-holding capacity.

The USDA – Web Soil Survey (WSS) identifies the predominant soil type at the Site as the Pyote and Maljamar fine sands that is moderately deep to very deep, with surface textures ranging from loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam. Subsurface consists of 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 includes a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and less than 40 percent calcium carbonate.

Vegetation reflects a grassland background including black grama, dropseeds, and bluestems, with scattered occurrences of shinney oak and sage. Ground cover consists of perennial and annual forbs, grasses, and bare ground, with composition varying based on precipitation. Declines in black grama can result in a transition toward a grass/shrub or shrub-dominated state, often featuring honey mesquite, snakeweed, sand sage, and shinnery oak. These changes are influenced by factors such as heavy grazing, drought, erosion, bare patches, and historical fire suppression, which promote shrub encroachment and reduce grass cover, leading to increased erosion potential and a competitive advantage for shrubs over grasses.

No surface water features were identified within 300 feet of the Site. The nearest significant watercourse is 1.66 miles southeast; the closest playa lake is 3.67 miles southeast, and the nearest wetland is 0.93 miles north (USFWS NWI, 2025). These distances comply with the requirements of 19.15.29.12(C)(4) NMAC.

Per the New Mexico Office of the State Engineer (NMOSE) Points of Diversion (POD) Map, the nearest POD is C-04820-POD1, which is used to reference Depth to Groundwater (DTGW) and is located 0.91 miles southwest of the Site. The POD is identified as a temporary borehole used to determine depth to groundwater. The well record indicates that the temporary borehole was drilled to a depth of 55 ft bgs,

and no groundwater was encountered. The nearest water source, a domestic well used for stock watering purposes, is an NMOSE POD, C-03442-POD1, located 5.17 miles northwest of the Site.

Karst potential for the Site is identified as non-karst, with the nearest area of medium karst potential located 5.69 miles to the west. The Site is in a FEMA flood hazard area identified as FEMA Zone D (undetermined hazard); the nearest identified FEMA flood hazard area, classified as Zone A, is 17.8 miles to the west.

Additional information detailing the results of the Site characterization findings can be found in **Appendix B**.

**Closure Criteria**

Table 1 summarizes key Site and incident information relevant to closure evaluation, as required under 19.15.29.12 NMAC. This includes details such as release source, location, containment status, and site-specific features that may influence closure requirements. While contamination thresholds, sampling depths, and applicable concentration limits are not listed in this table, the information provided supports regulatory assessment of whether the release meets criteria for closure. In accordance with NMAC 19.15.29.11(A)(5)(b), if the release occurred within lined, impermeable secondary containment with no evidence of escape, it may qualify for reduced remediation requirements or a No Further Action (NFA) determination.

No depth-to-groundwater (DTGW) well was identified within a 0.5-mile radius of the site. In accordance with NMAC 19.15.29.11 and 19.15.29.12, and due to the absence of a verified POD within this distance, the site is evaluated under the most stringent closure criteria—assuming groundwater is less than 50 feet below ground surface.

Table 1: Release Information and Closure Criteria Limits			
Depth to Ground Water Determination: < 50 feet bgs			
Site Name	Ragin Cajun 12 CTB 3	Company	Devon Energy Production Company, LP
Facility ID	fAPP2423338309	PLSS GPS	H-12-26S-34E 32.061330, -103.419365
Lease ID	NMNM100567	Land Status	BLM (Federal)
Incident ID(s)	nAPP2516154121 nAPP2520944996 nAPP2521924784	Date Of Release(s)	6/9/2025 7/27/2025 8/6/2025
Source of Release	Leak on main seal of WTP Leak on WTP swedge Leak on water trunkline	Volume Released/Recovered	14 bbls/14 bbls pw 37 bbls/37 bbls pw 59 bbls/59 bbls pw
Specific Features	No Karst Potential, DTGW pod outside of 0.5-mile radius, no surface water within proximity, and FEMA Zone D		

**Liner Inspection Activities**

For the three incidents associated with the Site, a notification of inspection to occur on August 22, 2025, was submitted to Devon via email on August 18, 2025, with official notification submitted through the Operator's Electronic Permitting and Payment Portal on the same date. However, the scheduled inspection was postponed due to residual material being present on the liner, limiting the ability to effectively inspect the liner. Email notification regarding the postponement of the inspection was submitted in accordance with 19.15.29.11(A)(5)(a)(iii) NMAC, and a copy is included in **Appendix C**.

On August 26, 2025, following completion of the secondary liner cleaning, a second official notification encompassing all three incidents was submitted. This notification, scheduled for August 28, 2025, was prepared and submitted in accordance with NMAC 19.15.29.11(A)(5)(a)(iii), and the inspection was successfully completed.

During the visit, KLJ personnel conducted a visual inspection of the secondary containment to verify liner integrity. Observations included checks for perforations, tears, cuts, or weathering that could compromise containment performance. The liner was confirmed to be intact, with no observed integrity issues or conditions requiring repair or replacement. Photographic documentation is included in the Liner Inspection Field Notes & Photolog Report (**Appendix A**).

During the process of preparing the report, the original deadline, September 8, 2025, was missed for the first release. In response, an official extension request was submitted to the New Mexico Oil Conservation Division (NMOCD) on September 9, 2025, for a 14-day extension to ensure compliance and complete the closure report for Incident ID nAPP2516154121 at Ragin Cajun 12 CTB 3. The request was approved for the new due date of September 22, 2025 and a copy is included in **Appendix C**.

**Conclusion**


Based on the findings of the liner inspection, KLJ concludes that liner integrity is adequate to contain fluids and there are no further actions required in relation to incidents nAPP2516154121, nAPP252044996, and nAPP2521924784.


Based on the site assessment and activities conducted, Devon Energy respectfully requests closure of the three listed incidents associated with Ragin Cajun 12 CTB 3.

Submitted and prepared by:  
KLJ Engineering

Written By  
Name: Monica Peppin  
Title: Environmental Specialist II

Reviewed By  
Name: Will Harmon, P.G.  
Title: Environmental Project Manager

Signature:  \_\_\_\_\_

Signature:  \_\_\_\_\_

**Included Appendices**

- Appendix A – LINER INSPECTION FIELD NOTES & PHOTOLOG REPORT
- Appendix B – CLOSURE CRITERIA RESEARCH
- Appendix C – CORRESPONDENCE

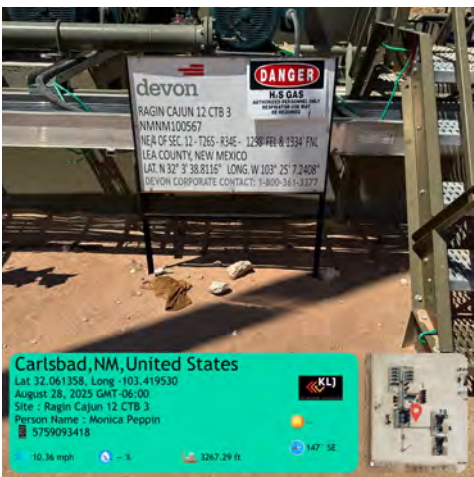
## APPENDIX A

### LINER INSPECTION FIELD NOTES & PHOTOLOG REPORT

# Environmental Liner Inspection Field Notes & Photolog Report



## Site & Incident Information

<b>Client:</b>	Devon Energy	<b>Date:</b>	8.28.2025
<b>Site:</b>	Ragin Cajun 12 CTB 3	<b>Arrival Time:</b>	10:25 AM
<b>Incident ID:</b>	nAPP2516154121, nAPP2520944996, nAPP252194784	 <p><b>Photo of Lease Sign</b></p>	
<b>Client Contact:</b>	Jim Raley		
<b>Land Status:</b>	BLM		
<b>County:</b>	Lea		
<b>Lease ID:</b>	NMNM100567		
<b>Facility ID:</b>	fAPP2423338309		
32.061330, -103.419596			

## Observations and Field Notes

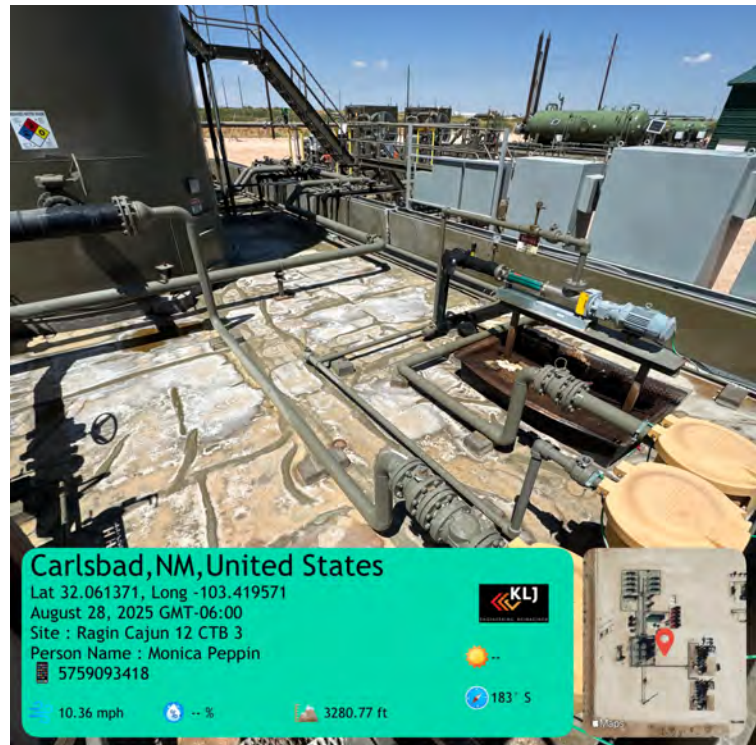
- 10:32 AM - Arrived on site and completed JHA; checked surroundings for immediate hazards, check in with supervisor of arrival on site.
- 10:38 AM - Begin inspection by walking perimeter of containment.
- 10:40 AM - Checked for punctures, rips, seam separation and signs of any liner degradation.
- 10:42 AM - Inspect liner walls and base for any signs of abrasions, wear, or damage.
- 10:45 AM - Liner surface appears structurally sound. No visible perforations, tears, or areas of concern.
- 10:48 AM - Completed inspection. Photos taken from all cardinal directions, in between tanks, and various angles of equipment.



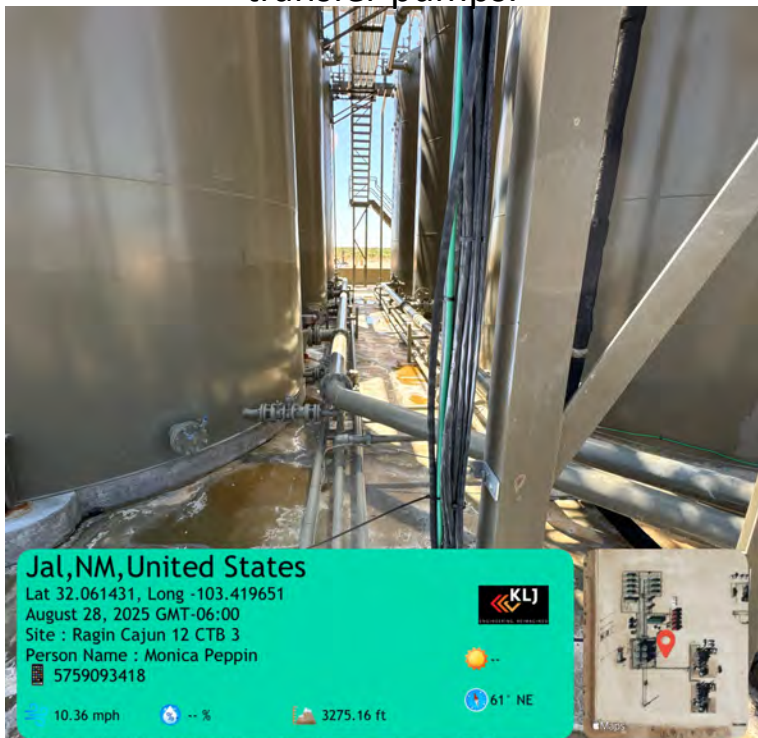
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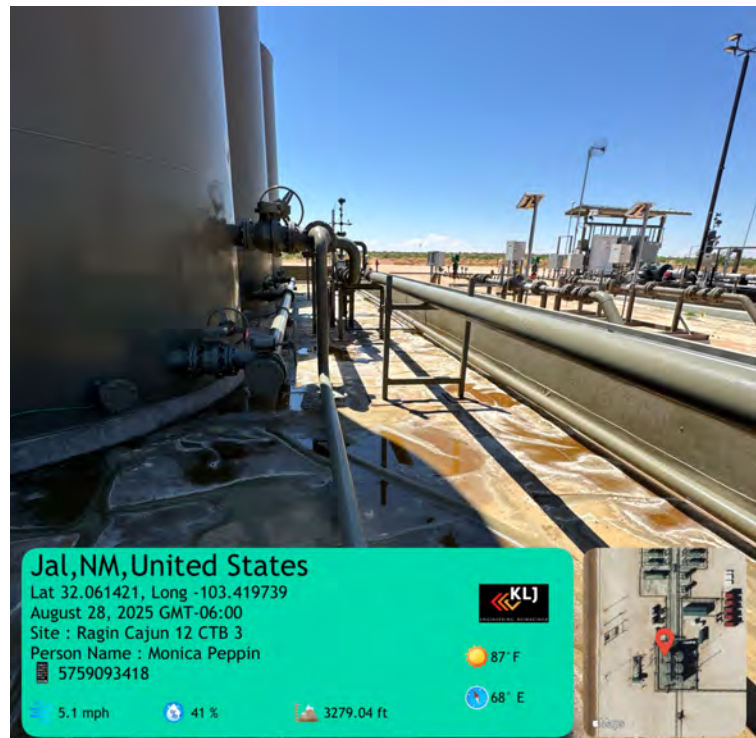
Southwest view of east area near water transfer pumps.



Northwest view from east side.



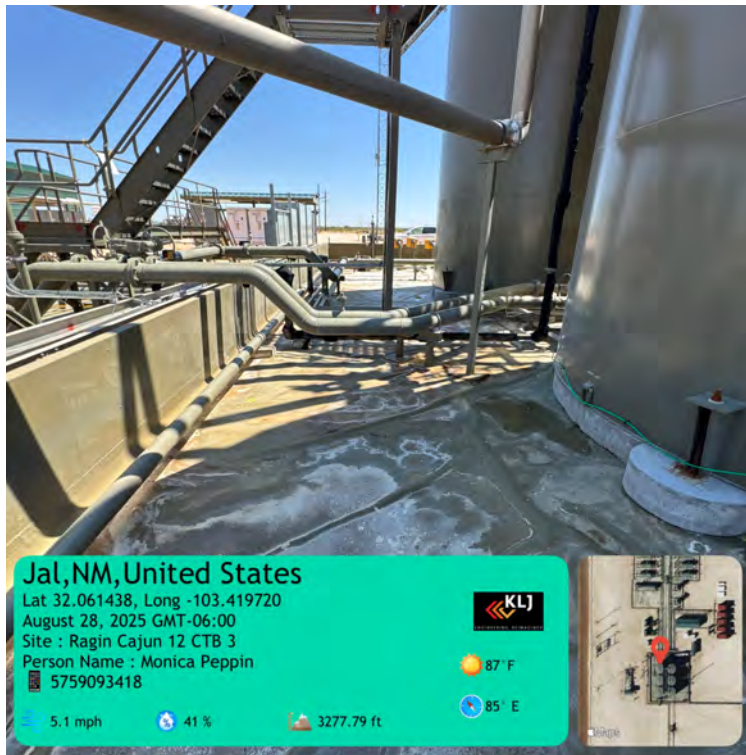
Liner between tanks from north side facing south.



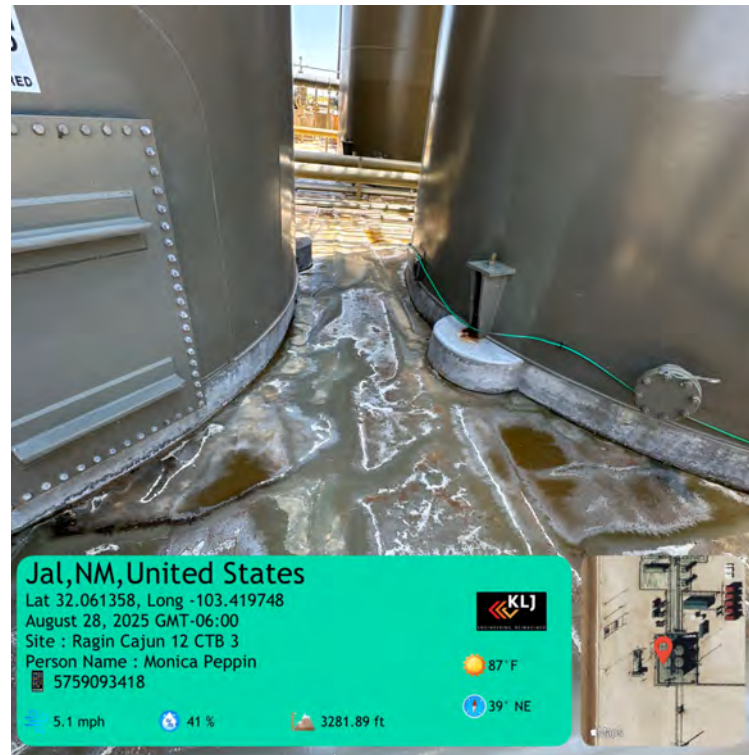
Facing south viewing west area.



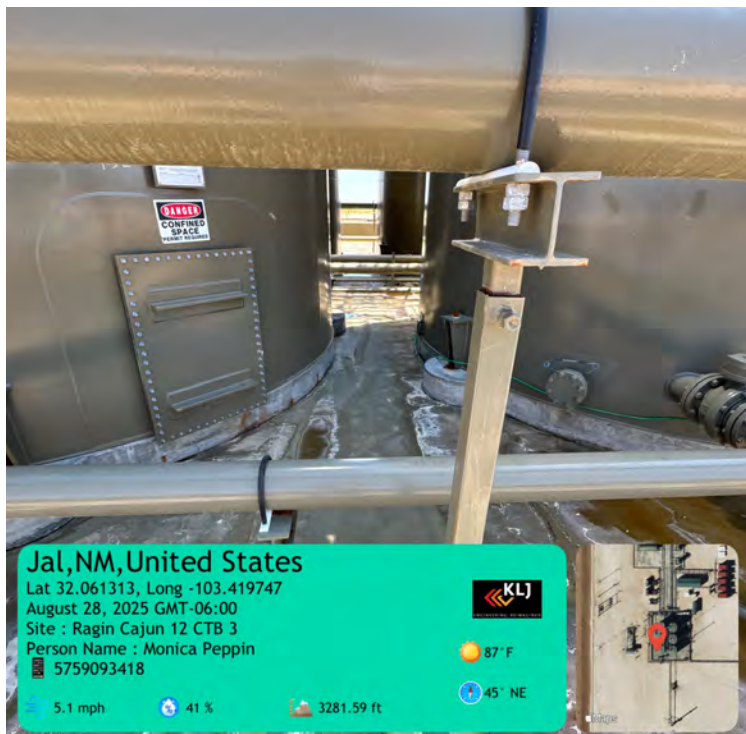
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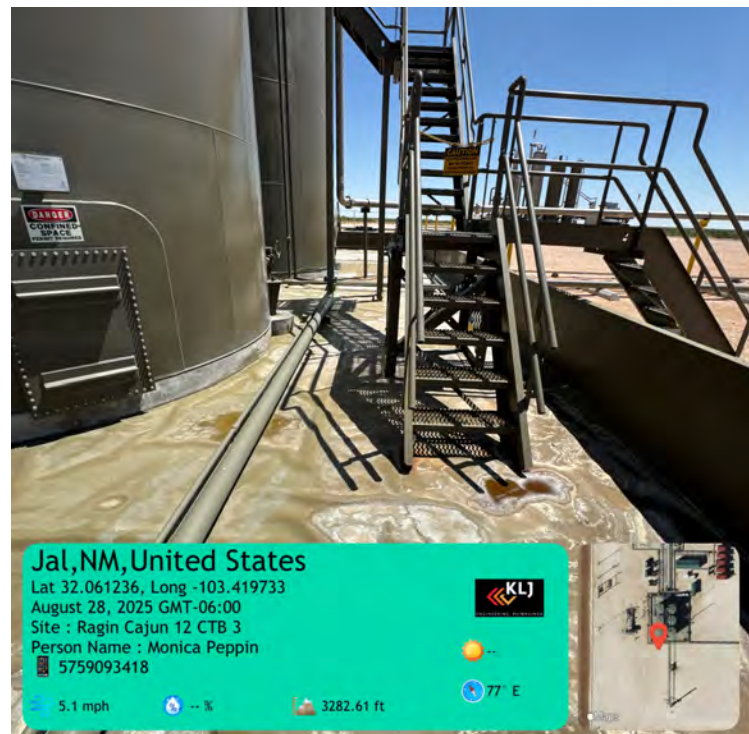
View of liner on north end facing east.



Between tanks facing east from west side.



Between tanks facing east.



South end of containment facing east.





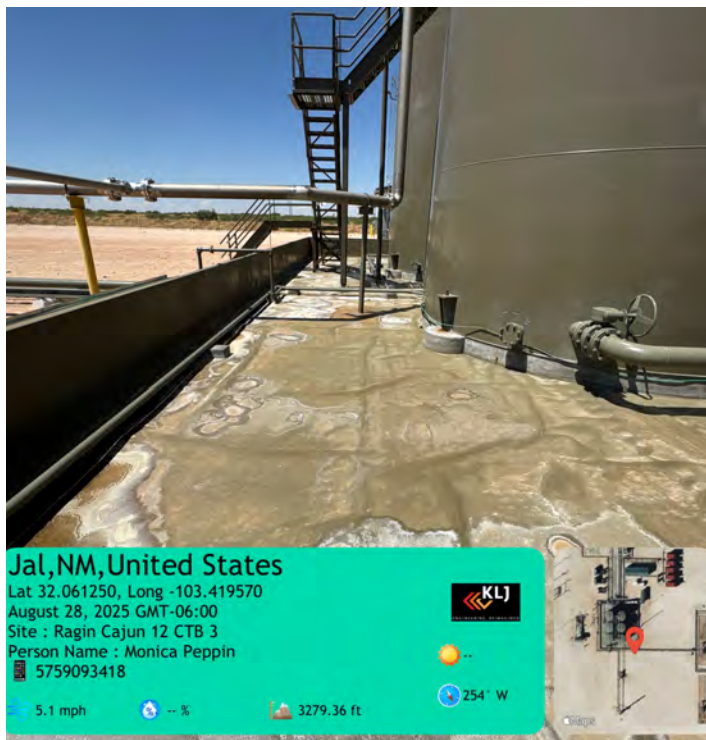
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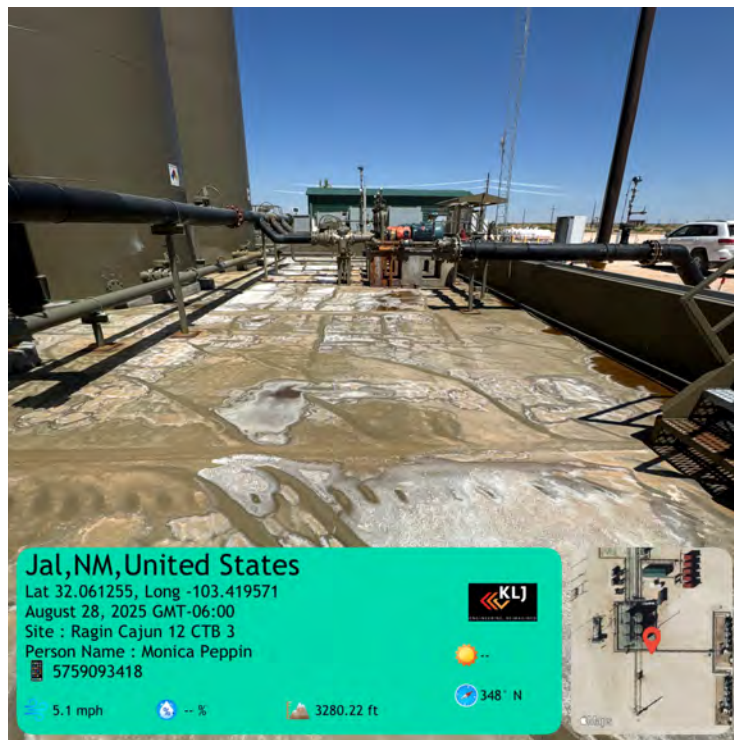
Facing north from southwest corner.



Liner between tanks facing north.



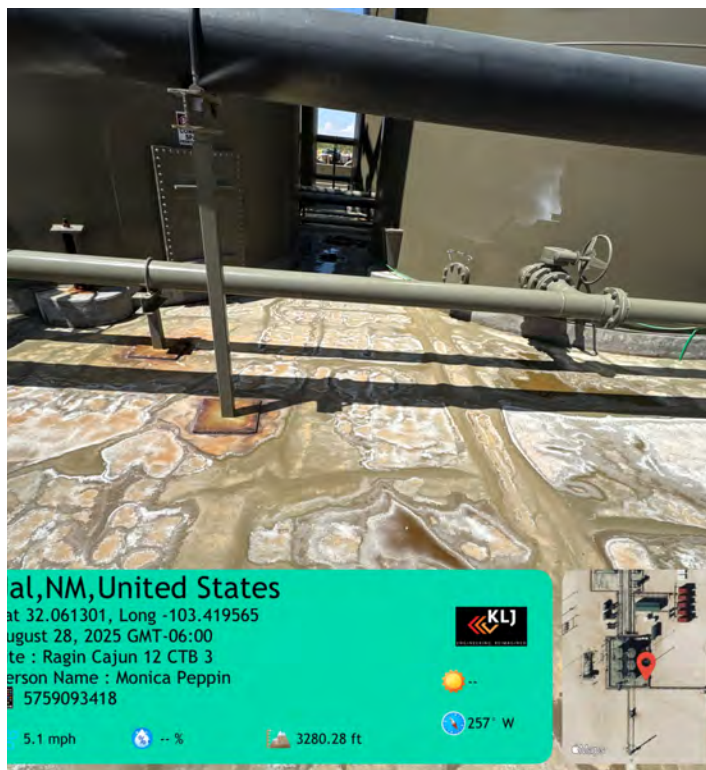
West view from east side of south end.



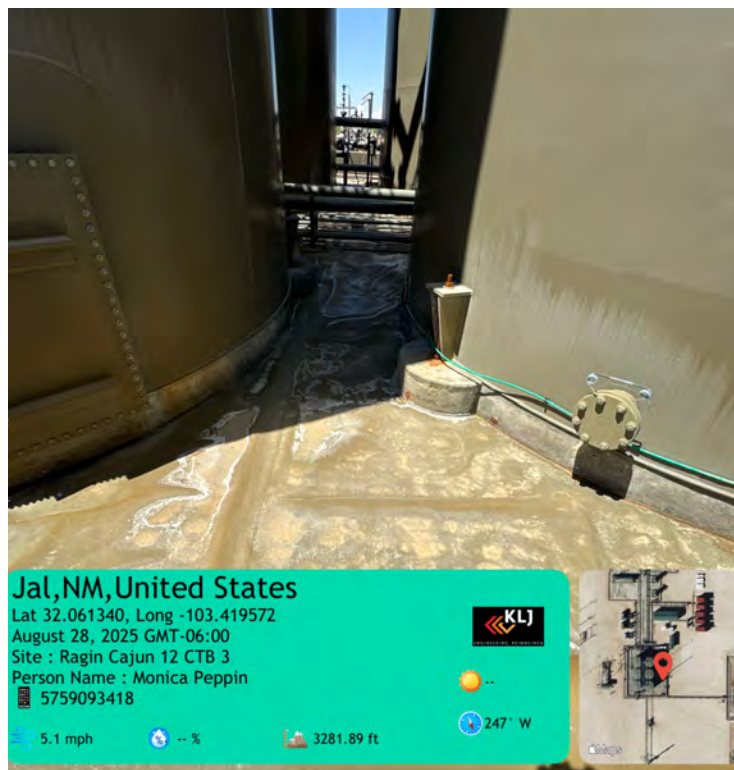
Facing north from south end on east side.



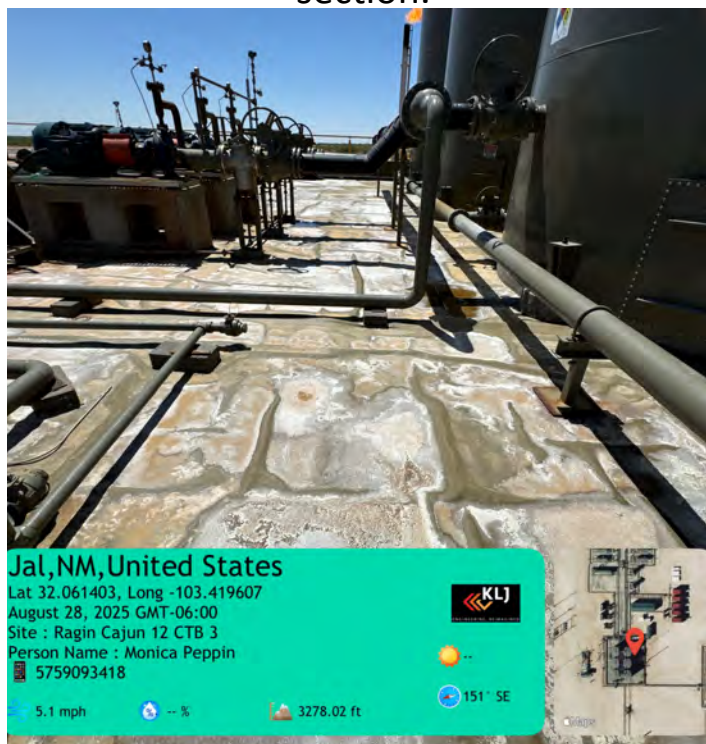
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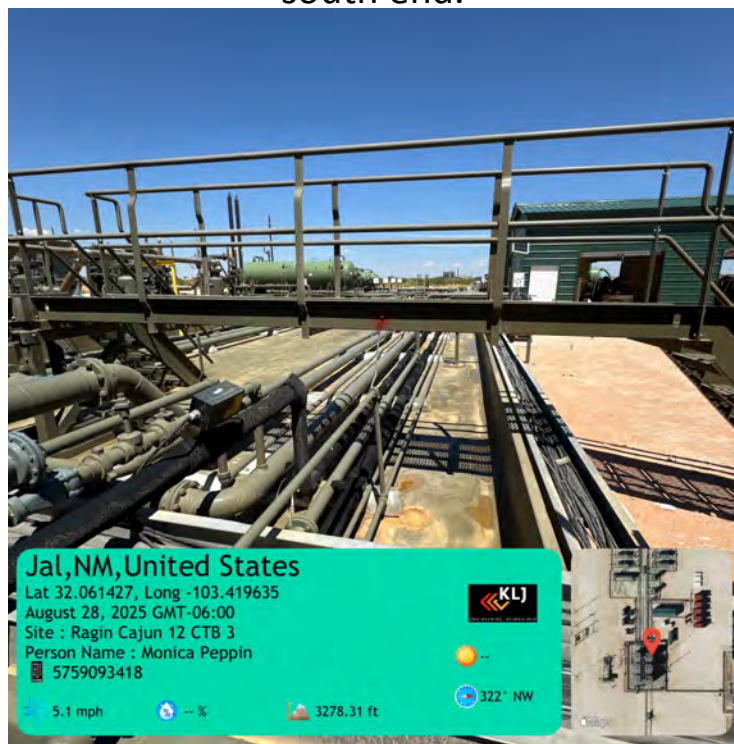
Liner between tanks facing west middle section.



Facing west viewing liner between tanks on south end.



Facing south near water transfer pumps on east side.



Liner view under piping and equipment.



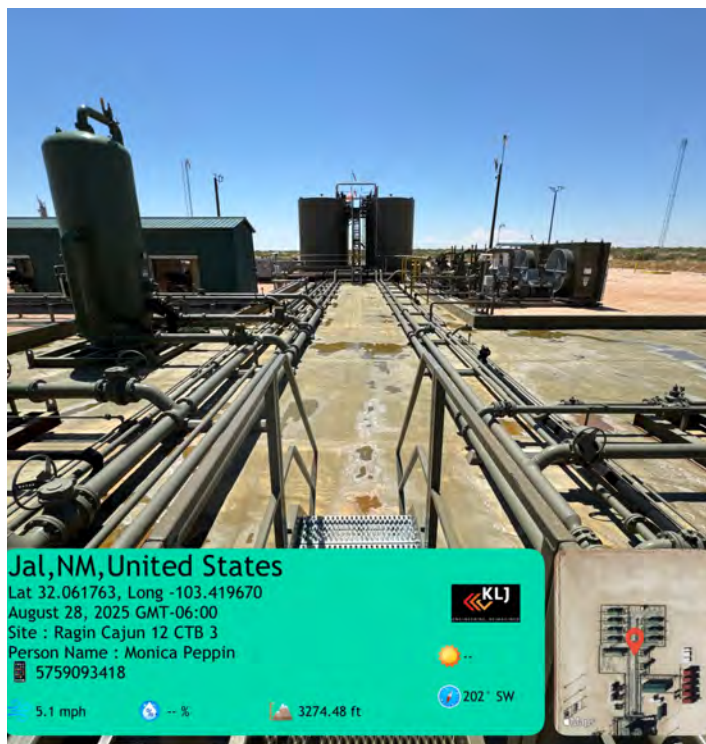
# Photolog



Facing north from mid area of east side.



Middle area facing west near heater treater.



Facing south from north end.



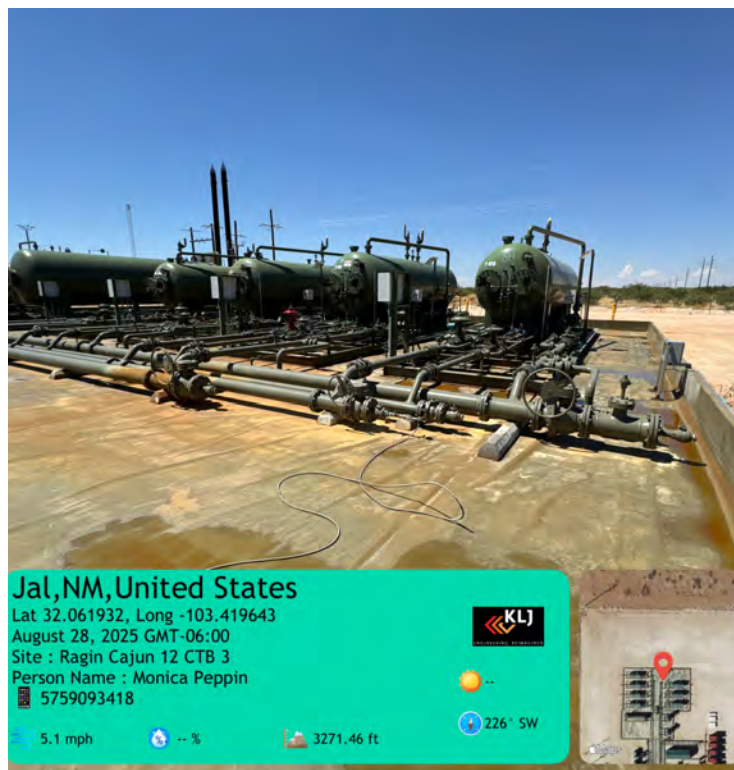
Northeast corner from mid area.



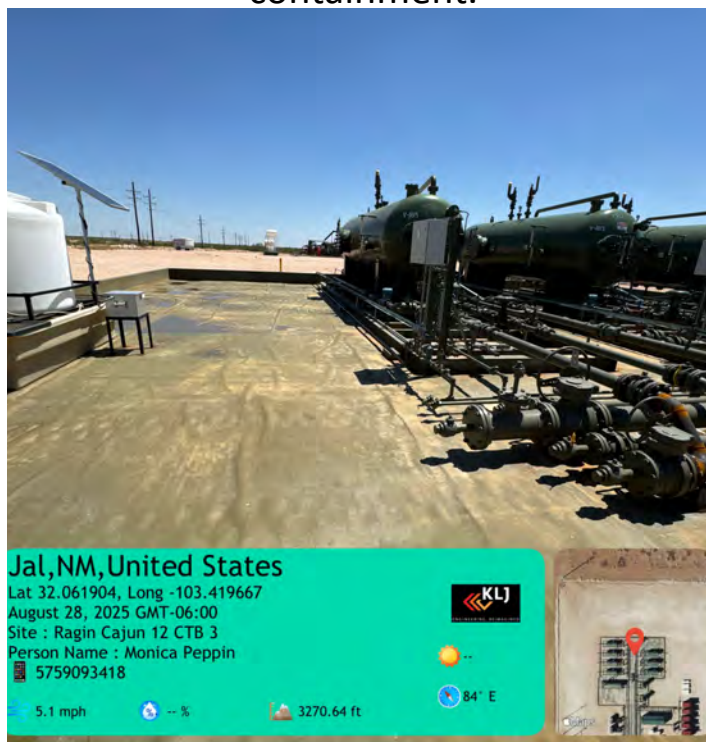
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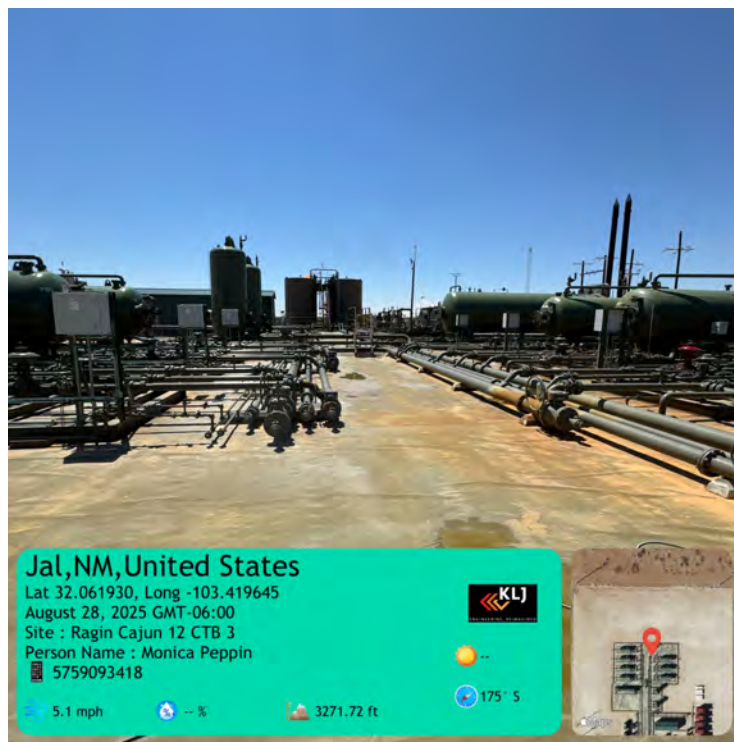
Facing North from mid area of containment.



Facing west viewing northwest corner.



North end view facing east.



Facing south from north end.



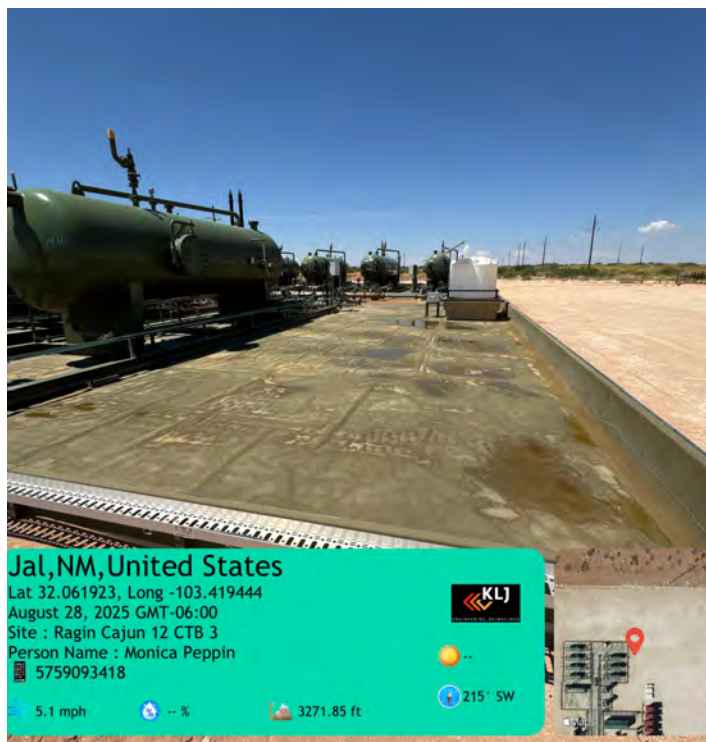
# Photolog



West side of containment facing south.



Facing south view of east side.



North end view facing west.



Northwest view from northeast corner.



## Additional Notes & Recommendations

- Visual observation supported with photo documentation.
- No issues identified; liner integrity confirmed and meets closure criteria.
- Upload documents and complete liner inspection closure report.
- Submit final closure report for review to applicable regulatory agencies.

## Acknowledgement & Signature

Technician: Monica Peppin

Date: August 28, 2025

Signature: 

Departure  
Time: 11:36 PM

## APPENDIX B

### CLOSURE CRITERIA RESEARCH

# Ragin Cajun 12 CTB 3




Coordinates: 32.061330, -103.419596

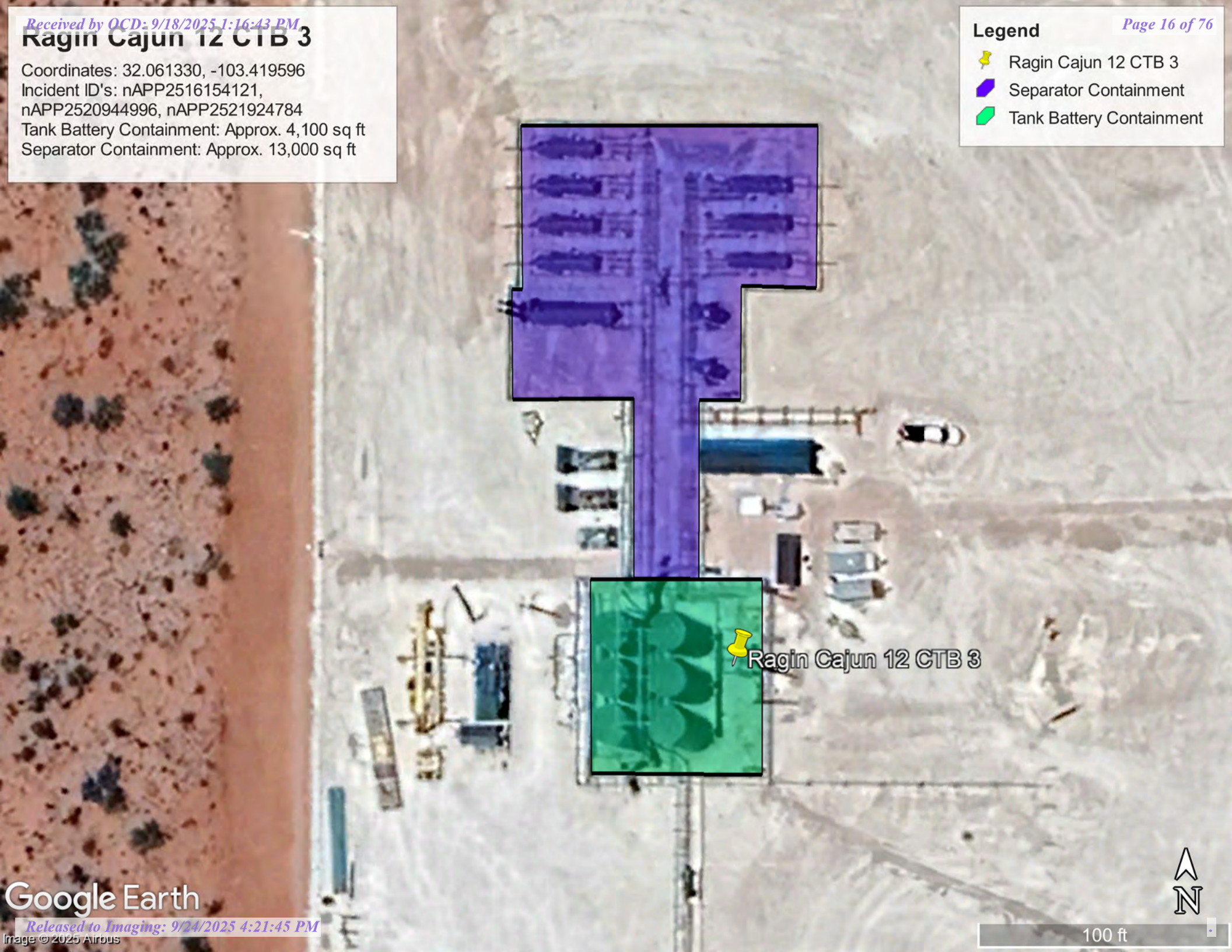
Incident ID's: nAPP2516154121,  
nAPP2520944996, nAPP2521924784


Tank Battery Containment: Approx. 4,100 sq ft

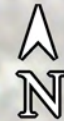
Separator Containment: Approx. 13,000 sq ft

## Legend

-  Ragin Cajun 12 CTB 3
-  Separator Containment
-  Tank Battery Containment

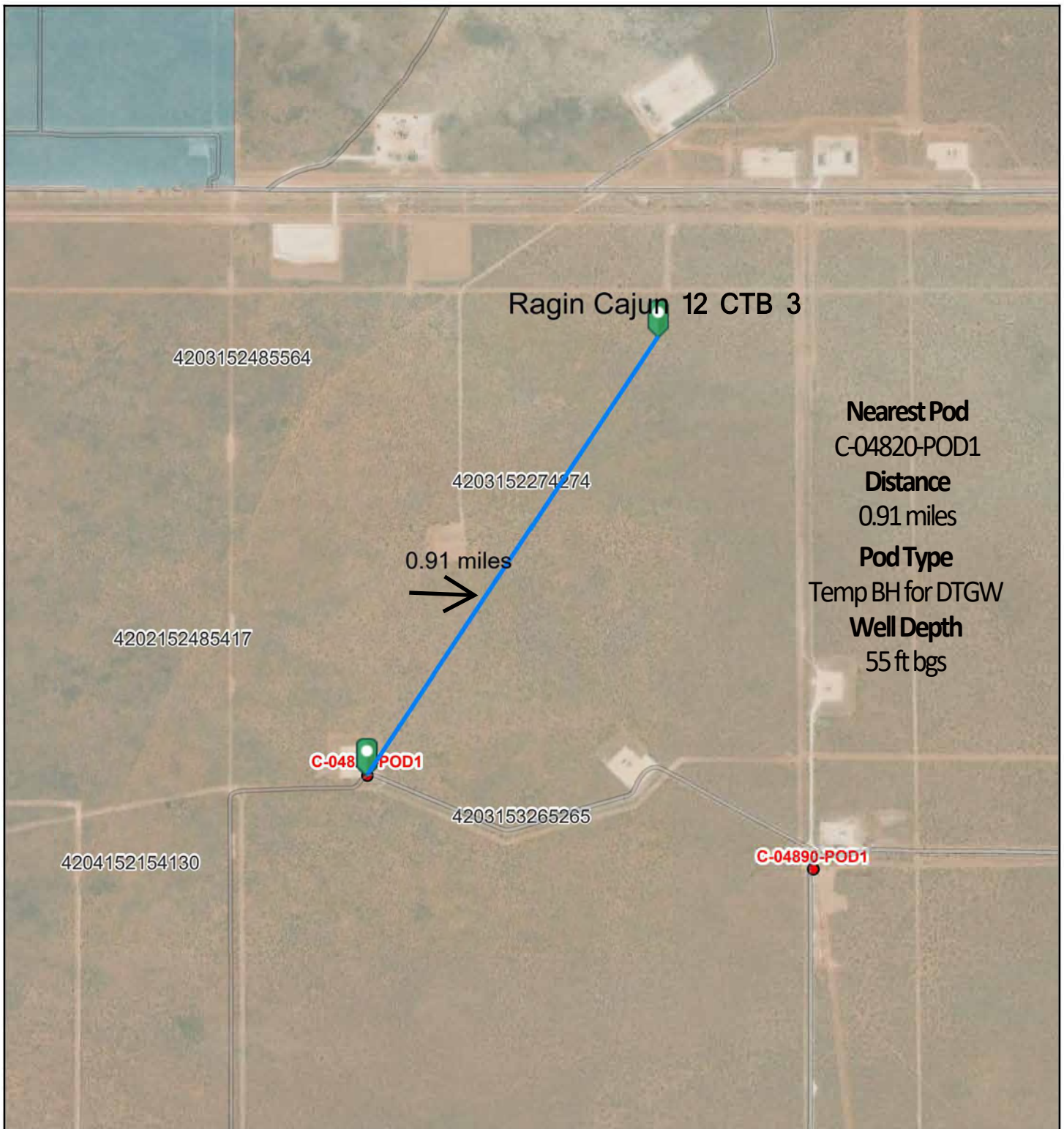


 Ragin Cajun 12 CTB 3





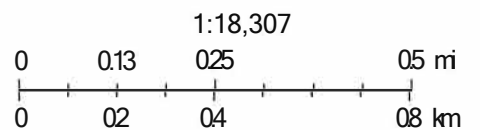
# Ragin Cajun 12 CTB 3 - DTGW Map



**Nearest Pod**  
 C-04820-POD1  
**Distance**  
 0.91 miles  
**Pod Type**  
 Temp BH for DTGW  
**Well Depth**  
 55 ft bgs

9/5/2025, 11:13:06 AM

- Override 1
- GIS WATERS PODs
- Plugged
- Water Right Regulations
- Closure Area
- District Boundary New Mexico
- State Trust Lands
- Both Estates



Sources: Esri, TomTom, Garmin, FAQ, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

FILE NO. C-04820 P001

# NEW MEXICO OFFICE OF THE STATE ENGINEER



## WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable boxes):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe): Groundwater Determination
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

\*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

Check here if the borehole is anything other than vertical (directional boring or angle boring) and include a schematic of your design.

Temporary Request - Requested Start Date: 4/1/2024 Requested End Date: 4/30/2024

Plugging Plan of Operations Submitted?  Yes  No

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form.

### 1. APPLICANT(S)

Name: Devon Energy	Name:
Contact or Agent: Dale Woodall check here if Agent <input type="checkbox"/>	Contact or Agent: check here if Agent <input type="checkbox"/>
Mailing Address: 205 E. Bender Road #150	Mailing Address:
City: Hobbs	City:
State: New Mexico Zip Code: 88240	State: Zip Code:
Phone: 405-318-4697 Phone (Work): <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): Dale.Woodall@dvn.com	E-mail (optional):

OFFICE OF THE STATE ENGINEER

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 02/29/2024

File No.: C-04820	Trn. No.: 757962	Receipt No.: 2-46676
Trans Description (optional):		
Sub-Basin: CUB	PCW/LOG Due Date: 4/1/25	

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

**Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell), District V (Aztec) and District VII (Cimarron) customers, provide a PLSS location in addition to above.**

NM State Plane (NAD83) (Feet)       UTM (NAD83) (Meters)       Lat/Long (WGS84) (to the nearest 1/10<sup>th</sup> of second)  
 NM West Zone       Zone 12N  
 NM East Zone       Zone 13N  
 NM Central Zone

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-04820 POD1	-103.428219	32.050272	Sec. 13 T26S Rng 34E

**NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)**  
 Additional well descriptions are attached:  Yes  No If yes, how many \_\_\_\_\_

Other description relating well to common landmarks, streets, or other:  
 Location Name: Ragin Cajun Federal 2H

Well is on land owned by: BLM

**Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached?**  Yes  No  
 If yes, how many \_\_\_\_\_

Approximate depth of well (feet): 55      Outside diameter of well casing (inches): 2  
 Driller Name: Jason Maley      Driller License Number: 1833

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Devon plans to have a licensed water well driller install an exploratory soil boring on locations to determine the depth to groundwater. The soil boring will be installed up to a depth of 55 feet below ground surface. Temporary PVC well material will be placed to the depth of the boring and secured at the surface. The temporary well will be in place for a minimum of 72 hours at which time the well will be gauged for the presence of water. If water is encountered at any point during the boring installation, the soil boring will be plugged using a slurry of Portland Type 1/11 Neat Cement with less than 6 gallons of water per 94 lb sack. If no water is encountered, the boring will be plugged using hydrated bentonite with drill cuttings to plug the upper 10 feet. The event will begin between April 1, 2024 and April 30, 2024.

Ragin Cajun 12 Federal 2H, 32.050272, -103.428219

OSE OFF MAR 21 2024 AM 8:42

FOR OSE INTERNAL USE      Application for Permit, Form WR-07 Version 02/29/2024

File No.: C-04820 POD1	Trn No.: 757962
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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:

<p><b>Exploratory*:</b> Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of any proposed pump test, if applicable.</p> <p><b>Monitoring*:</b> <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring.</p>	<p><b>Pollution Control and/or Recovery:</b> <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p><b>Construction De-Watering:</b> <input type="checkbox"/> Include a description of the proposed dewatering operation. <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p> <p><b>Ground Source Heat Pump:</b> <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p><b>Mine De-Watering:</b> <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
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(\* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

ACKNOWLEDGEMENT

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

Print Name(s)

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

Dale Woodall

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

approved  partially approved  denied

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 and further subject to the attached conditions of approval.

Witness my hand and seal this 1<sup>st</sup> day of April 20 24, for the State Engineer.

MIKE A. HAMMAN, P.E.

State Engineer

By: K. Parekh  
Signature

KASHYAP PAREKH  
Print

Title: WATER RESOURCE MANAGER I  
Print



FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 02/29/2024

File No.: C-04820 POD1

Trn No.: 757962

**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 04820 POD1

File Number: C 04820

Trn Number: 757962

**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 04820 POD1

File Number: C 04820

Trn Number: 757962

NEW MEXICO STATE ENGINEER OFFICE  
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04820 POD1 must be completed and the Well Log filed on or before 04/01/2025.

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: 03/21/2024 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 01 day of Apr A.D., 2024

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

By: K. Parekh  
KASHYAP PAREKH



Trn Desc: C 04820 POD1

File Number: C 04820  
Trn Number: 757962

Form 3160-5  
(February 2005)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
**NMNM100567**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
**Ragin Cajun 12 Federal 2H**

9. API Well No.  
**30-025-42256**

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**Lea County, New Mexico**

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**Devon Energy Resources**

3a. Address  
**205 E Bender Road # 150, Hobbs NM, 88240**

3b. Phone No. (include area code)  
**405-318-4697**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**32.050272, -103.428219  
Section 12, T26S, R34E**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Depth to Groundwater</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>exploratory borehole</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Devon Energy Resources plans to have a licensed water well driller install an exploratory soil boring on location to determine the depth of groundwater. The soil boring will be installed up to a depth of 55 feet below ground surface (ft bgs). Temporary PVC well material will be placed to a depth of the boring and secured at the surface. The temporary well will be in place for a minimum of 72 hours at which time the well will be gauged for the presence of water. If water is encountered at any point during the boring installation, the soil boring will be plugged using a slurry of Portland Type 1/11 Neat Cement less than 6.0 gallons of water per 94 lb sack. If no water is encountered, the boring will be plugged using hydrated bentonite with drill cuttings to plug the upper 10 ft. bgs. The event will potentially begin on February 1, 2024 and may continue through February 29, 2024 pending a drilling rig's availability to execute the exploratory borehole.**

OSE 017 MAR 14 2024 #2157

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Dale Woodall**

Title **Manager Environment**

Signature

Date

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by **Shelly J Taylor** Digitally signed by Shelly J Taylor  
Date: 2024.03.07 15:21:55 -07'00'

Title \_\_\_\_\_ Date \_\_\_\_\_

Office \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



**GENERAL INSTRUCTIONS**

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

**SPECIFIC INSTRUCTIONS**

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13* - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

**NOTICES**

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

**PRINCIPAL PURPOSE:** The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

**ROUTINE USES:** Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

**EFFECT OF NOT PROVIDING THE INFORMATION:** Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

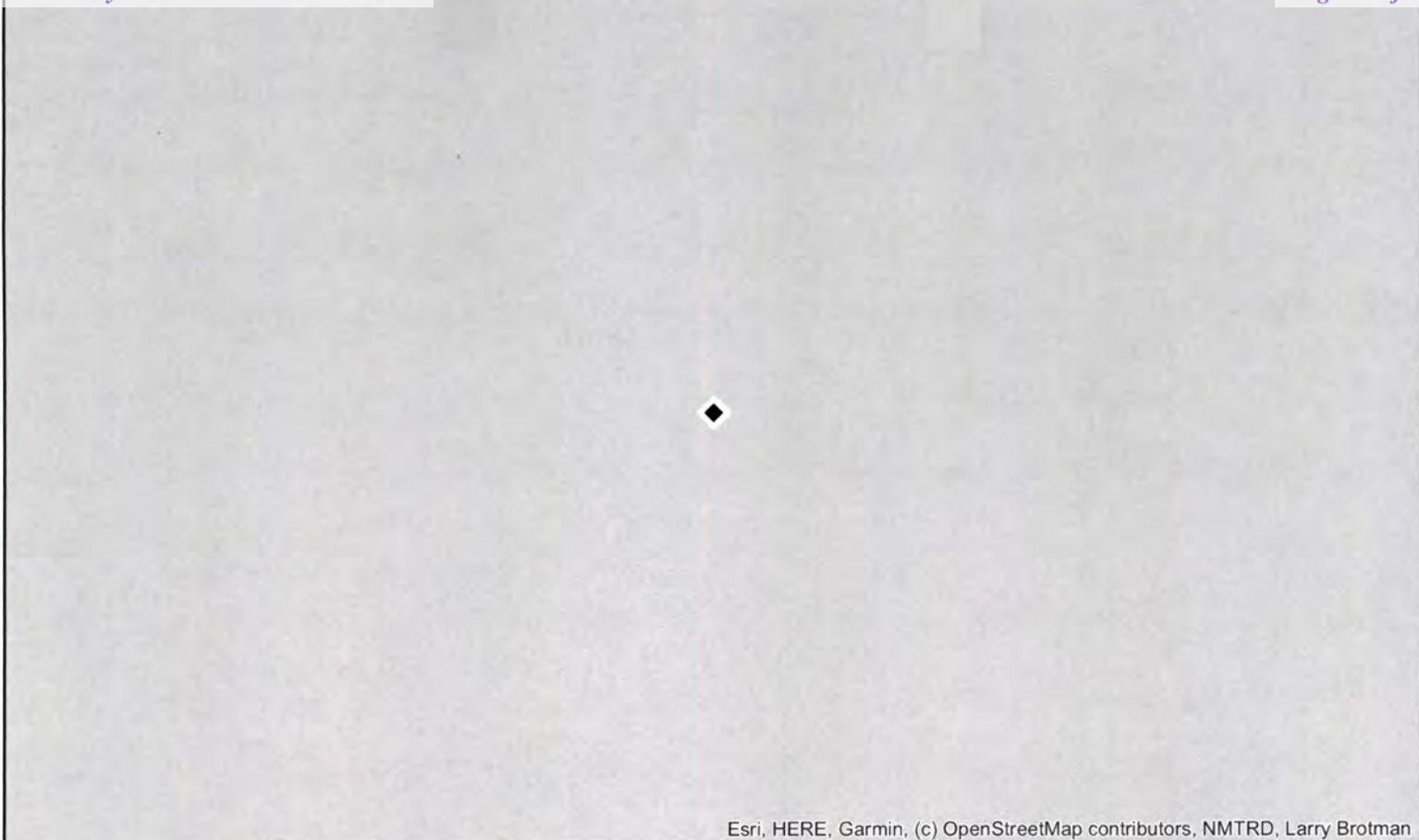
Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington D.C. 20240

(Form 3160-5, page 2)

002025 MAR 14 2:24 PM EST



Esri, HERE, Garmin, (c) OpenStreetMap contributors, NMTRD, Larry Brotman

**Coordinates**

**UTM - NAD 83 (m) - Zone 13**

Easting 648391.113

Northing 3547087.676

**State Plane - NAD 83 (f) - Zone E**

Easting 821766.911

Northing 383200.511

**Degrees Minutes Seconds**

Latitude 32 : 3 : 0.979200

Longitude -103 : 25 : 41.588400

Location pulled from Coordinate Search

**NEW MEXICO OFFICE OF THE STATE ENGINEER**

1:2,257

N



3/14/2024



Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation; however, a degree of error is inherent in all maps, and these maps may contain omissions and errors in scale, resolution, registration, positional accuracy, development methodology, interpretation of source data, and other circumstances. These maps are distributed "as is" without warranty of any kind.

**Spatial Information**

**Land Grant: Not in Land Grant County: Lea**

**Groundwater Basin: Carlsbad**

**Abstract Area: Carlsbad 72-12-1**

**Carlsbad Underground Basin**

**Regulation Area:**

**Carlsbad/Capitan/Lea Closure**

**PLSS Description**

**NENENWNW Qtr of Sec 13 of 026S 034E**

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

**Parcel Information**

UPC/DocNum:

Parcel Owner:

Address:null null null

Legal:

**POD Information**

Owner:

File Number:

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose:

◆ Coord Search Location

Water Right Regulations

☞ Closure Area

OSE District Boundary

☐ Bernalillo County Parcels 2023

☐ Catron County Parcels 2023

☐ Chaves County Parcels 2023

☐ Cibola County Parcels 2023

☐ Colfax County Parcels 2023

☐ Curry County Parcels 2023

☐ De Baca County Parcels 2023

☐ Doña Ana County Parcels 2023

☐ Eddy County Parcels 2023

☐ Grant County Parcels 2023

☐ Guadalupe County Parcels 2023

☐ Harding County Parcels 2023

☐ Hidalgo County Parcel 2023

☐ Lea County Parcels 2023

☐ Lincoln County Parcels 2023

☐ Los Alamos County Parcels 2023

☐ Luna County Parcels 2023

☐ McKinley County Parcels 2023

☐ Mora County Parcels 2023

☐ Otero County Parcels 2023

☐ Quay County Parcels 2023

☐ Rio Arriba County Parcels 2023

☐ Roosevelt County Parcels 2023

☐ Sandoval County Parcels 2023

☐ San Juan County Parcels 2023

☐ Otero County Parcels 2023

☐ San Miguel County Parcels 2023

☐ Santa Fe County Parcels 2023

☐ Sierra County Parcels 2023

☐ Socorro County Parcels 2023

☐ Taos County Parcels 2023

☐ Torrance County Parcels 2023

☐ Union County Parcels 2023

☐ Valencia County Parcels 2023

Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 757962  
File Nbr: C 04820

Apr. 01, 2024

DALE WOODALL  
DEVON ENERGY  
205 E BENDER ROAD #150  
HOBBS, NM 88240

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](http://www.ose.state.nm.us).

Sincerely,

A handwritten signature in black ink, appearing to read "Rodolfo Chavez".

Rodolfo Chavez  
(575) 622-6521

Enclosure

explore



**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 14, 2024

Devon Energy Resources  
205 E. Bender Road # 150  
Hobbs, NM 88240

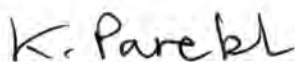
RE: Well Plugging Plan of Operations for well No. C-4820-POD1

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,

  
Kashyap Parekh  
Water Resources Manager I



**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 a well, listed below, to be plugged. Jason Maley (Vision Resources) (WD-1833) will perform the plugging.

Permittee: Devon Energy Resources  
 NMOSE Permit Number: C-4820-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4820-POD1	2.0	55.0	Unknown	32° 3' 0.9786"	103° 25' 41.556"

**Specific Plugging Conditions of Approval for Well located in Lea County.**

1. 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 9.0 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 1.63 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. Ground Water encountered:** 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.

7. 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 4. and 5. 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 soil boring 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 14<sup>th</sup> day of March 2024

Mike A. Hamman, P.E. State Engineer

By:                     K-Parekh                    

Kashyap Parekh  
Water Resources Manager I





# WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

**Alert!** Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology [geoinfo.nmt.edu/resources/water/cgmn/](http://geoinfo.nmt.edu/resources/water/cgmn/) if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email [nmbg-waterlevels@nmt.edu](mailto:nmbg-waterlevels@nmt.edu), prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

**I. FILING FEE:** There is no filing fee for this form.

**II. GENERAL / WELL OWNERSHIP:**  Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: C-4820-POD1

Name of well owner: Devon Energy Resources

Mailing address: 205 E Bender Road # 150 County: Lea

City: Hobbs State: NM Zip code: 88240

Phone number: 405-318-4697 E-mail: Dale.Woodall@DVN.com

**III. WELL DRILLER INFORMATION:**

Well Driller contracted to provide plugging services: Vision Resources , Jason Maley *JM*

New Mexico Well Driller License No.: 1833 Expiration Date: 10/07/2023

**IV. WELL INFORMATION:**  Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 3 min, 0.9786 sec  
Longitude: -103 deg, 25 min, 41.556 sec, NAD 83

2) Reason(s) for plugging well(s):

32.050272, -103.428219 - No water found OSE DIT MAR 7 2024 PM 1:27

3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? no If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: no water feet below land surface / feet above land surface (circle one)

6) Depth of the well: 55 feet

- 7) Inside diameter of innermost casing: 2 inches.
- 8) Casing material: PVC
- 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): 50-55 Feet
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? None
- 11) Was the well built with surface casing? no If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? \_\_\_\_\_ If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? Yes If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

**V. DESCRIPTION OF PLANNED WELL PLUGGING:**  If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: 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 diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:  

Temporary PVC casing will be removed and approximately 4.7 Cubic feet of bentonite chips will be placed in well.
- 2) Will well head be cut-off below land surface after plugging? no well head will be installed.

**VI. PLUGGING AND SEALING MATERIALS:**

Note: 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 recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: \_\_\_\_\_
- 4) Type of Cement proposed: \_\_\_\_\_
- 5) Proposed cement grout mix: \_\_\_\_\_ gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: \_\_\_\_\_ batch-mixed and delivered to the site  
 \_\_\_\_\_ mixed on site



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

Grout not planned

8) Additional notes and calculations:

**VII. ADDITIONAL INFORMATION:** List additional information below, or on separate sheet(s):

Devon plans to have a licensed water well driller install an exploratory soil boring on location to determine the depth of groundwater. The soil boring will be installed up to a depth of 55 feet below ground surface (ft bgs). Temporary PVC well material will be placed to a depth of the boring and secured at the surface. The temporary well will be in place for a minimum of 72 hours at which time the well will be gauged for the presence of water. If water is encountered at any point during the boring installation, the soil boring will be plugged using a slurry of Portland Type 1/11 Neat Cement less than 6.0 gallons of water per 94 lb sack. If no water is encountered, the boring will be plugged using hydrated bentonite with drill cuttings to plug the upper 10 ft. bgs. The event will begin February 1, 2024 and continue through February 29, 2024.  
Ragin Cajun 12 Federal 2H, 32.050272, -103.428219

**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.

*Dale Woodall*

Signature of Applicant

Date

**IX. ACTION OF THE STATE ENGINEER:**

This Well Plugging Plan of Operations is:

- Approved subject to the attached conditions.
- Not approved for the reasons provided on the attached letter.

USE DTI MAR 7 2024

Witness my hand and official seal this 14<sup>th</sup> day of March, 2024

Mike A. Hamman P.E.

\_\_\_\_\_, New Mexico State Engineer

By: *K. Parekh*  
Kashyap Parekh

Water Resources Manager I

WD-08 Well Plugging Plan  
Version: March 07, 2022  
Page 3 of 5



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

	<b>Interval 1 – deepest</b>	<b>Interval 2</b>	<b>Interval 3 – most shallow</b>
			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)	Does Not Apply (DNA)	DNA	DNA
Bottom of proposed interval of grout placement (ft bgl)	DNA	DNA	DNA
Theoretical volume of grout required per interval (gallons)	DNA	DNA	DNA
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	DNA	DNA	DNA
Mixed on-site or batch-mixed and delivered?	DNA	DNA	DNA
Grout additive 1 requested	DNA	DNA	DNA
Additive 1 percent by dry weight relative to cement	DNA	DNA	DNA
Grout additive 2 requested	DNA	DNA	DNA
Additive 2 percent by dry weight relative to cement	DNA	DNA	DNA

**TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.**

	<b>Interval 1 – deepest</b>	<b>Interval 2</b>	<b>Interval 3 – most shallow</b>
			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)	1-ft. Fill to one-ft below ground surface. Top 1-ft will be filled with soil backfill.		Zero feet below grade.
Bottom of proposed sealant of grout placement (ft bgl)	Bottom 55.0-ft. 0-20': Pour from surface 20 to 55': Tremie in bentonite chips.		
Theoretical volume of sealant required per interval (gallons)	Under a 100 gallons of water/enough to be adequate for hydrating the Bentonite		
Proposed abandonment sealant (manufacturer and trade name)	Wyoming Bentonite		

OSE DJJ MAR 7 2024 PM 1:27



# 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:**

State Engineer Well Number: C-04820  
Well owner: Devon Energy Resources Phone No.: \_\_\_\_\_  
Mailing address: 205 E Bender Road#150  
City: Hobbs State: NM Zip code: 88240

**II. WELL PLUGGING INFORMATION:**

- 1) Name of well drilling company that plugged well: Vision Resources
- 2) New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Jason Maley
- 4) Date well plugging began: 4-22-24 Date well plugging concluded: 4-22-24
- 5) GPS Well Location: Latitude: 32 deg, 03 min, 01.0 sec  
Longitude: -103 deg, 25 min, 41.6 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),  
by the following manner: Tape
- 7) Static water level measured at initiation of plugging: Dry ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3-14-23
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 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.

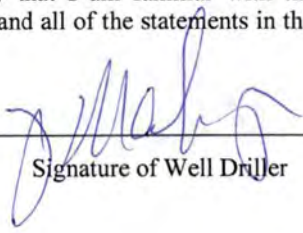
For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0	Wyoming Bentonite	77.50	77.50	Tremie Pipe Open hole	
55'					

MULTIPLY	BY	AND OBTAIN
cubic feet	x 7.4805	= gallons
cubic yards	x 201.97	= gallons

**III. SIGNATURE:**

I, Jason Maley, 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.

  
 \_\_\_\_\_  
 Signature of Well Driller

4/24/24  
 \_\_\_\_\_  
 Date



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER  
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04820 <b>POD1</b>		WELL TAG ID NO.		OSE FILE NO(S) C-4820			
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM	ZIP 88240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 3	SECONDS 01.0	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103	25	41.6	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 4-17-24		DRILLING ENDED 4-17-24		DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 0'	DATE STATIC MEASURED 4-22-24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	45	6"	PVC 2" SCH40	Thread	2"	SCH40	N/A
	45	55	6"	PVC 2" SCH40	Thread	2"	SCH40	.02
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				None pulled and plugged				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

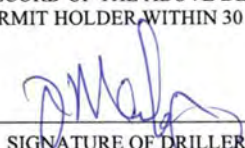
FILE NO. <b>C-04820</b>	POD NO. <b>(</b>	TRN NO. <b>757962</b>
LOCATION <b>265. 34E. 13. 211</b>	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	10	10'	Brown dirt with white caliche	Y ✓ N	
	10	30	20'	red coarse sand with small rock	Y ✓ N	
	30	55	25'	Tan fine sand	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: Dry hole					TOTAL ESTIMATED WELL YIELD (gpm): 0	

5. TEST; RIG SUPERVISION	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:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Jason Maley	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Jason Maley

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. C-04820	POD NO. 1	TRN NO. 757962	
LOCATION 265.34E.13.211	WELL TAG ID NO.	PAGE 2 OF 2	

Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 757962  
File Nbr: C 04820  
Well File Nbr: C 04820 POD1

Apr. 25, 2024

DALE WOODALL  
DEVON ENERGY  
205 E BENDER ROAD #150  
HOBBS, NM 88240

Greetings:

The above numbered permit was issued in your name on 04/01/2024.

The Well Record was received in this office on 04/25/2024, stating that it had been completed on 04/17/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 04/01/2025.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Rodolfo Chavez".

Rodolfo Chavez  
(575) 622-6521

drywell





**Ragin Cajun 12 CTB 3**  
 Nearest Watercourse: Riverine  
 Distance: 1.66 miles



August 28, 2025

**Wetlands**

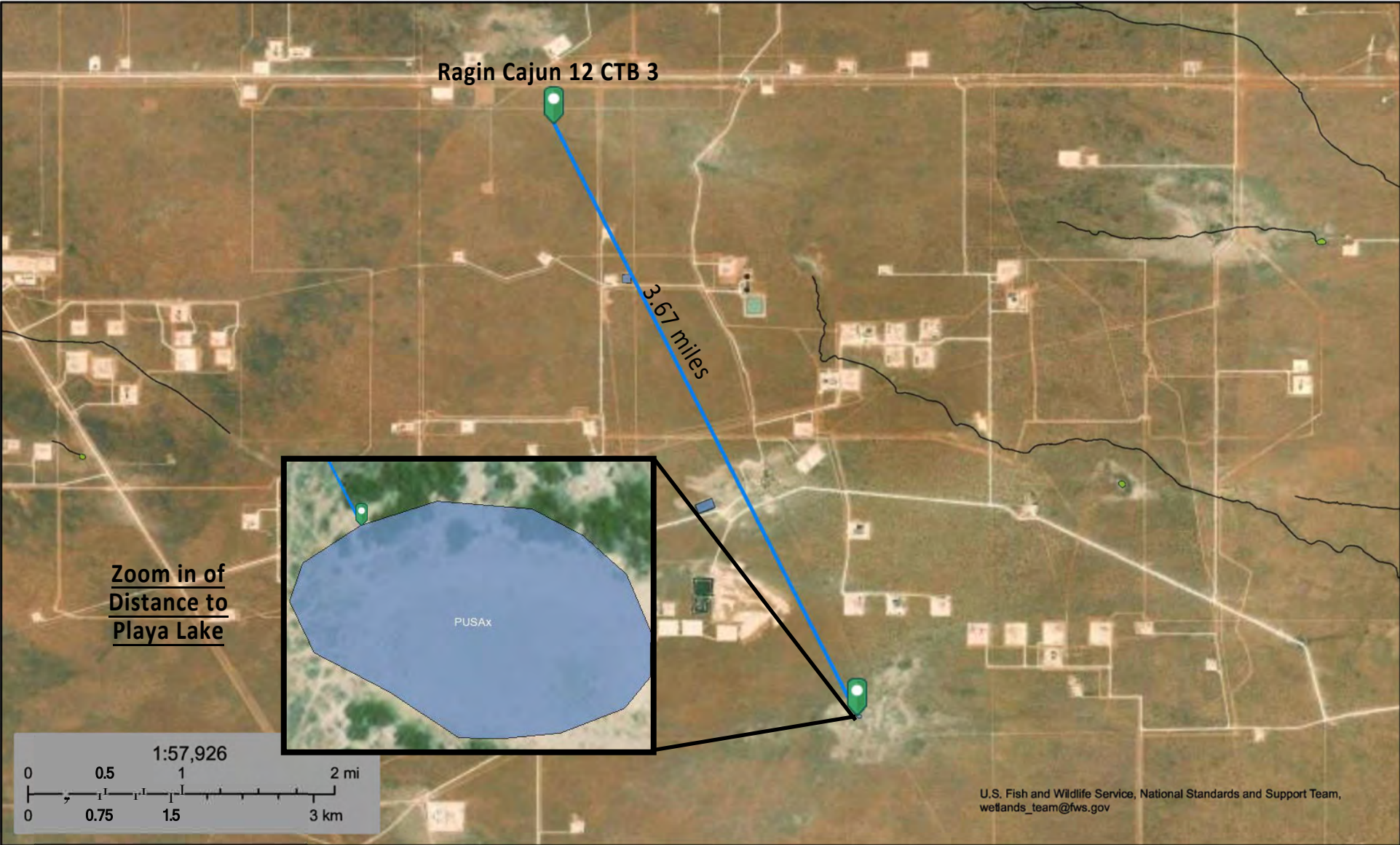
- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Estuarine and Marine Wetland
- Lake
- Other
- Freshwater Pond
- Riverine

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











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

**Ragin Cajun 12 CTB 3**  
**Playa Lake Distance: 3.67 miles**



August 28, 2025

**Wetlands**

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland
-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond
-  Lake
-  Other
-  Riverine

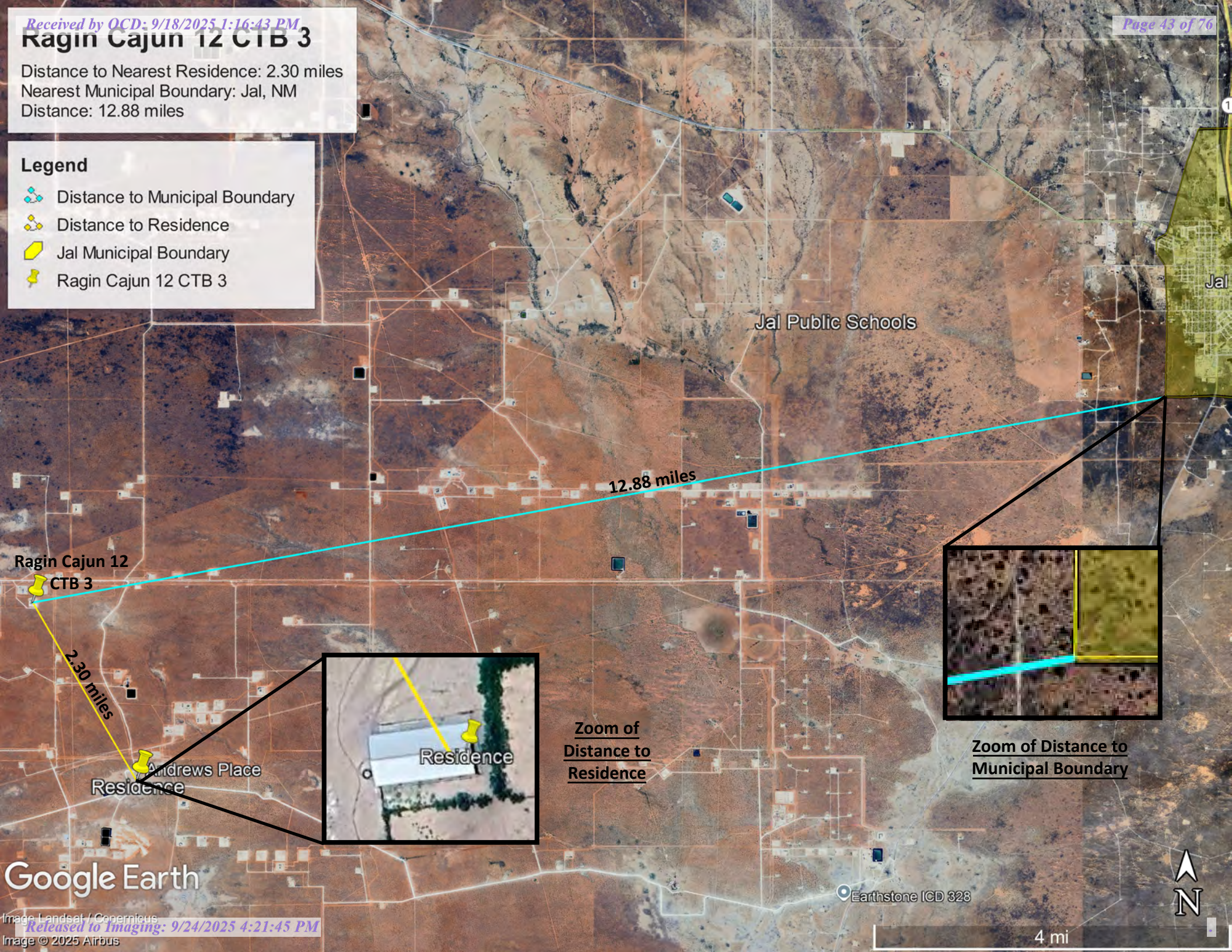
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# Ragin Cajun 12 CTB 3

Distance to Nearest Residence: 2.30 miles  
Nearest Municipal Boundary: Jal, NM  
Distance: 12.88 miles

## Legend

- Distance to Municipal Boundary
- Distance to Residence
- Jal Municipal Boundary
- Ragin Cajun 12 CTB 3



Ragin Cajun 12  
CTB 3

12.88 miles

2.30 miles

Andrews Place  
Residence

Jal Public Schools

Residence

Zoom of  
Distance to  
Residence

Zoom of Distance to  
Municipal Boundary

Google Earth

Earthstone ICD 328

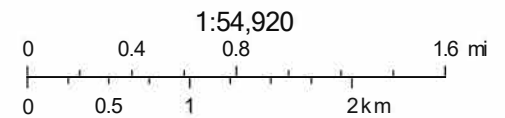
4 mi

# Ragin Cajun 12 CTB 3 Distance to Livestock Watering Pod



9/4/2025, 1:12:49 PM

- Override 1
- GIS WATERS PODs
- Active
- Pending
- Plugged
- OSE District Boundary



Earthstar Geographies, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Monica Peppin

This is an unofficial map from the OSE's online application.



Distance to Wetlands  
0.93 miles



August 28, 2025

### Wetlands

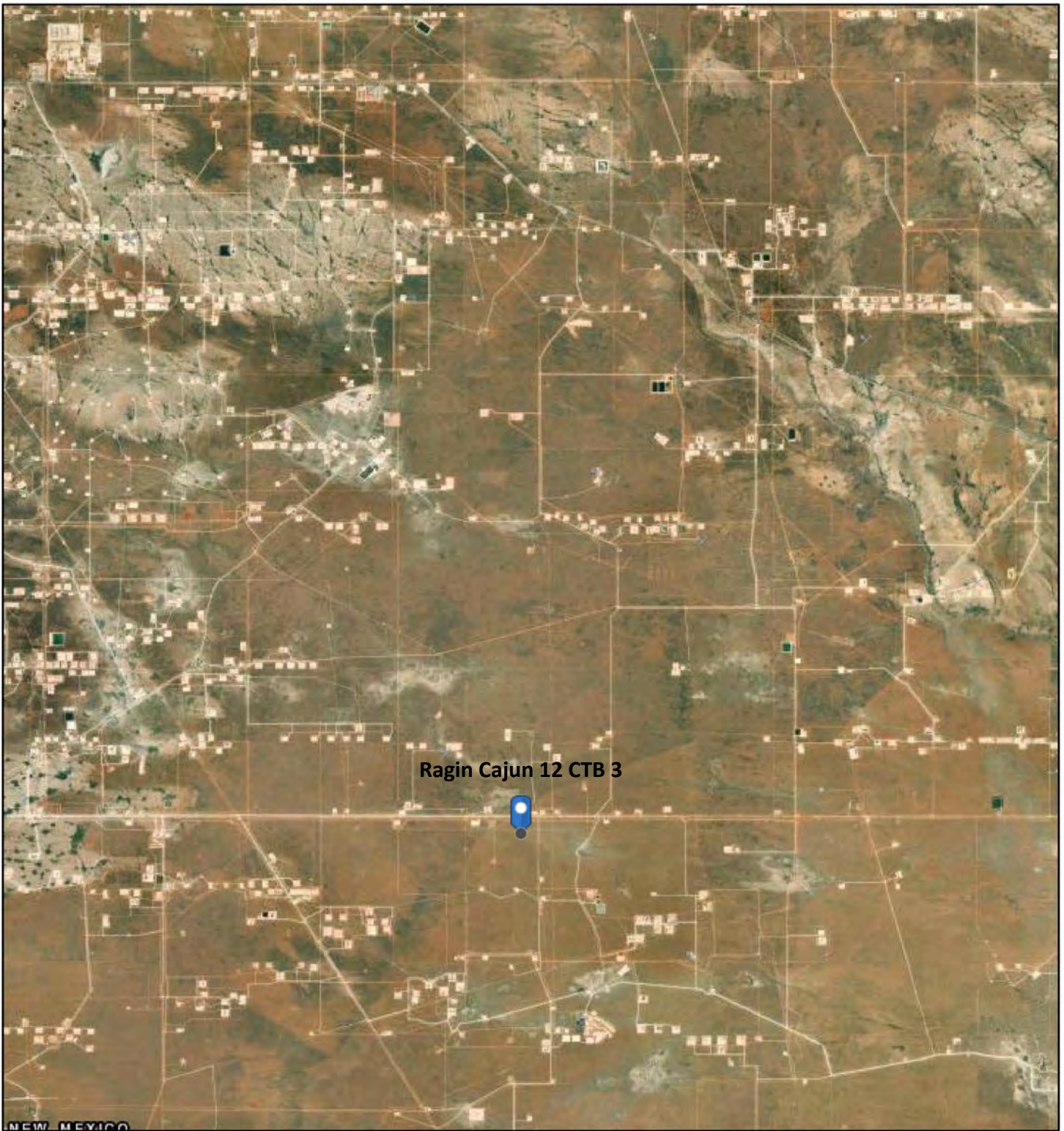
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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

# Ragin Cajun 12 CTB 3 - Mines Proximity Map



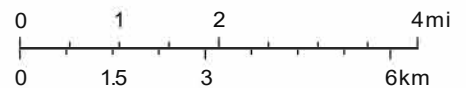
8/25/2025, 12:59:24 PM

## Registered Mines

- ✘ Aggregate, Stone etc.
- ✘ Aggregate, Stone etc.

### No Mines Within 5-mile Radius

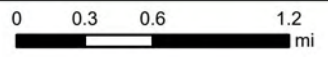
1:144,448



Esri. HERE. Garmin. Earthstar Geographies



### Ragin Cajun 12 CTB 3



**New Mexico State Land Office**

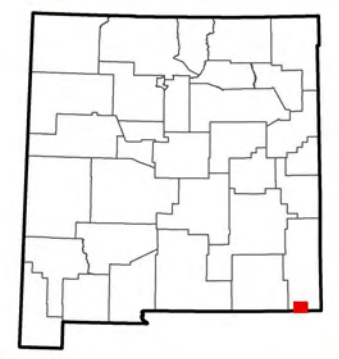
**Disclaimer:**  
 The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.

Released to Imaging: 9/24/2025 4:21:45 PM  
 Map Created: 8/29/2025

- User drawn points
- High
- Medium
- Critical

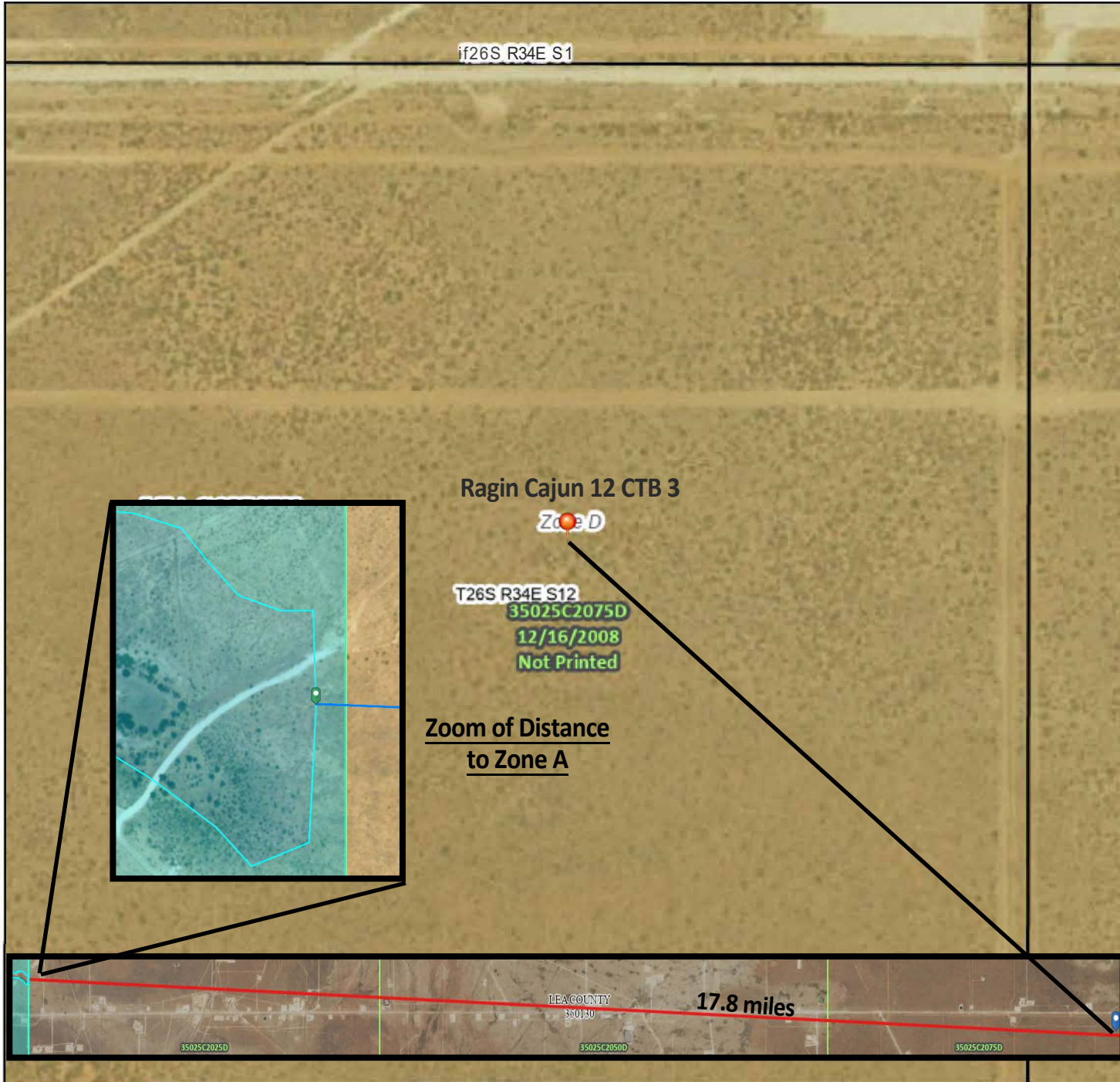
Karst\_Potential\_NM  
 Potential



# National Flood Hazard Layer FIRMette



103° 25'28"W 32° 3'56"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
  - Without Base Flood Elevation (BFE) Zone A, V, A99
  - With BFE or Depth Zone AE, AO, AH, VE, AR
  - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
  - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile zone x
  - Future Conditions 1% Annual Chance Flood Hazard zone x
  - Area with Reduced Flood Risk due to Levee. See Notes. zone x
  - Area with Flood Risk due to Levee zone O
- OTHER AREAS**
  - NO SCREEN Area of Minimal Flood Hazard zone x
  - Effective LOMRs
  - Area of Undetermined Flood Hazard zone O
- GENERAL STRUCTURES**
  - Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall
- OTHER FEATURES**
  - Cross Sections with 1% Annual Chance Water Surface Elevation
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
- MAP PANELS**
  - Digital Data Available
  - No Digital Data Available
  - Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/3/2025 at 2:36 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

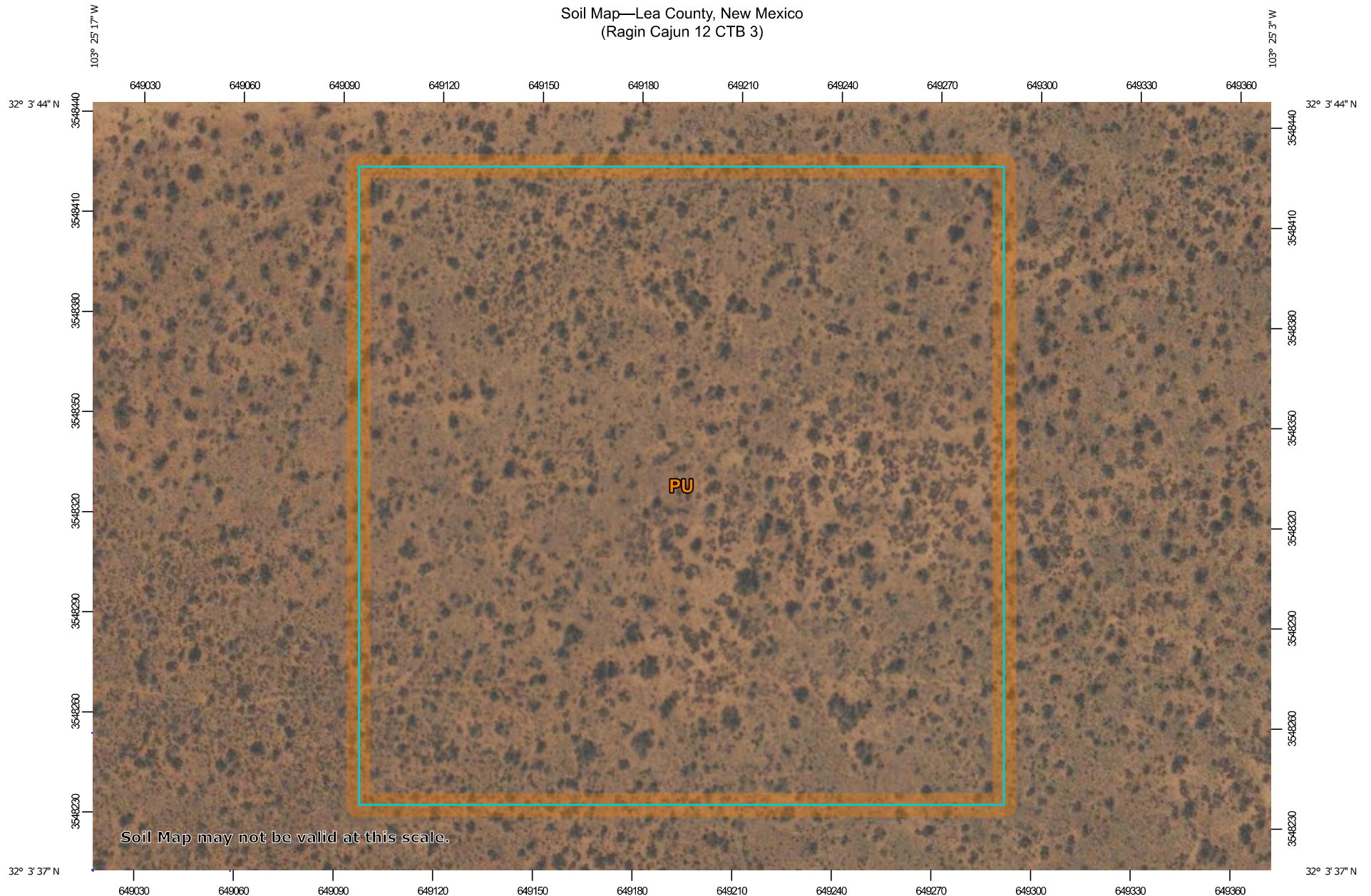
Released to Imaging: 9/24/2025 4:21:45 PM

1:6,000

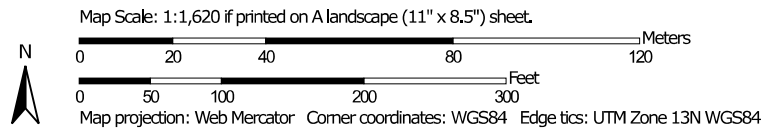
Basemap Imagery Source: USGS National Map 2023



Soil Map—Lea County, New Mexico  
(Ragin Cajun 12 CTB 3)




Soil Map may not be valid at this scale.



Soil Map—Lea County, New Mexico  
(Ragin Cajun 12 CTB 3)

**MAP LEGEND**

**Area of Interest (AOI)**

 Area of Interest (AOI)




















**Soils**






 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

**MAP INFORMATION**

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed 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: Lea County, New Mexico  
Survey Area Data: Version 21, 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

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

### Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	9.2	100.0%
<b>Totals for Area of Interest</b>		<b>9.2</b>	<b>100.0%</b>



## Lea County, New Mexico

### PU—Pyote and Maljamar fine sands

#### Map Unit Setting

*National map unit symbol:* dmqq  
*Elevation:* 3,000 to 3,900 feet  
*Mean annual precipitation:* 10 to 12 inches  
*Mean annual air temperature:* 60 to 62 degrees F  
*Frost-free period:* 190 to 205 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent  
*Maljamar and similar soils:* 44 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Pyote

##### Setting

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

##### Typical profile

*A - 0 to 30 inches:* fine sand  
*Bt - 30 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 5 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e

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

## Description of Maljamar

### Setting

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

### Typical profile

*A - 0 to 24 inches: fine sand*  
*Bt - 24 to 50 inches: sandy clay loam*  
*Bkm - 50 to 60 inches: cemented material*

### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 40 to 60 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 5 percent*  
*Gypsum, maximum content: 1 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 2.0*  
*Available water supply, 0 to 60 inches: Low (about 5.6 inches)*

### Interpretive groups

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

## Minor Components

### Kermit

*Percent of map unit: 10 percent*  
*Ecological site: R070BC022NM - Sandhills*

*Hydric soil rating:* No

## Data Source Information

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



# Ecological site R070BD003NM Loamy Sand

Accessed: 09/05/2025

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

**Table 1. Dominant plant species**

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

## Physiographic features

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

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

**Table 2. Representative physiographic features**

Landforms	(1) Fan piedmont (2) Alluvial fan (3) Dune
Elevation	2,800–5,000 ft
Slope	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.

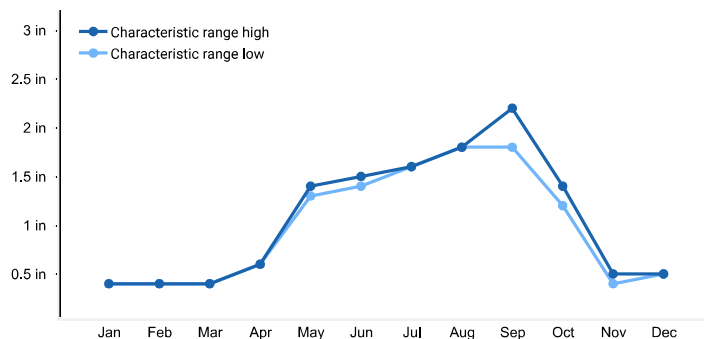
The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

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/climsnm.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



**Figure 2. Monthly precipitation range**

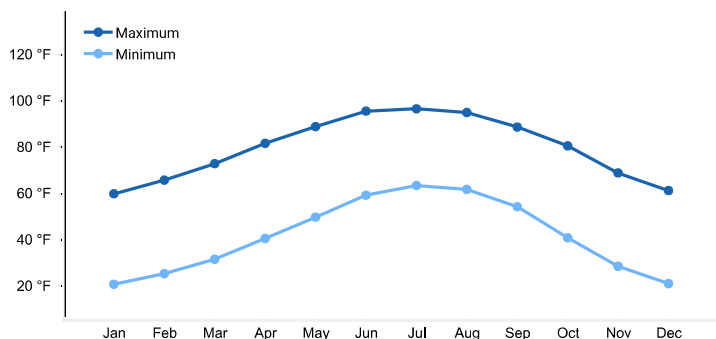


Figure 3. Monthly average minimum and maximum temperature

### 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

### Ecological dynamics

#### Overview

The Loamy Sand site intergrades with the Deep Sand and Sandy

Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid
Soil depth	40–72 in
Surface fragment cover <=3"	10%
Surface fragment cover >3"	Not specified
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)	2
Soil reaction (1:1 water) (0–40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	Not specified

sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and

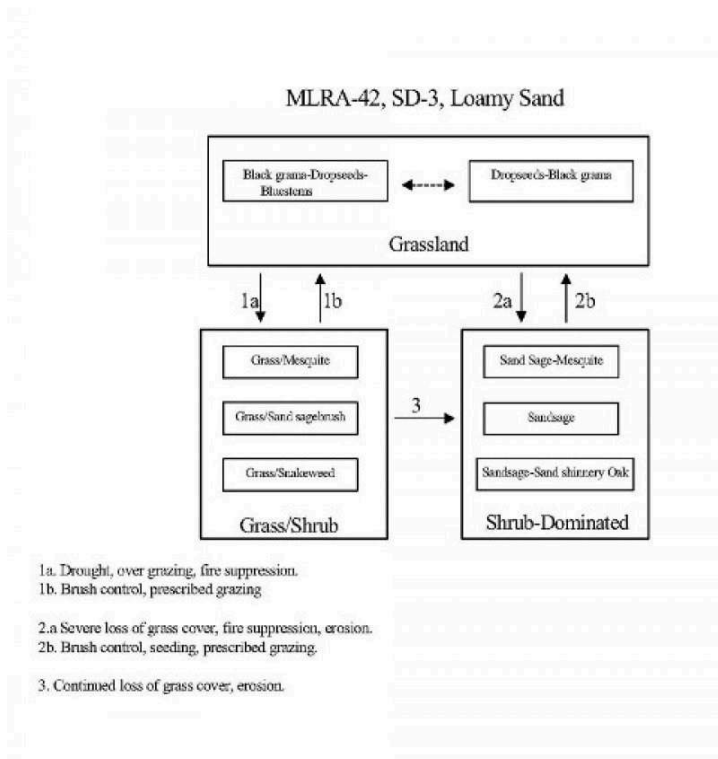


Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

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

**State and transition model**

**Plant Communities and Transitional Pathways (diagram):**



**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
<b>Total</b>	<b>650</b>	<b>1225</b>	<b>1800</b>

**Table 6. Ground cover**

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	28%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	22%

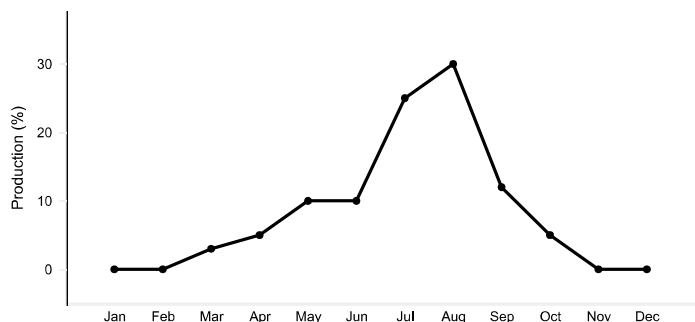


Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

**State 2  
Grass/Shrub**

**Community 2.1  
Grass/Shrub**



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 • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn 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 (%)
<b>Grass/Grasslike</b>					
1	<b>Warm Season</b>			61–123	
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	61–123	–
2	<b>Warm Season</b>			37–61	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	37–61	–
3	<b>Warm Season</b>			37–61	
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	37–61	–
	silver bluestem	BOSA	<i>Bothriochloa saccharoides</i>	37–61	–
4	<b>Warm Season</b>			123–184	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	123–184	–
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	123–184	–
5	<b>Warm Season</b>			123–184	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	123–184	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	123–184	–
	fringed signalgrass	URCI	<i>Urochloa ciliatissima</i>	123–184	–
6	<b>Warm Season</b>			123–184	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	123–184	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	123–184	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	123–184	–
7	<b>Warm Season</b>			61–123	
	hooded windmill grass	CHCU2	<i>Chloris cucullata</i>	61–123	–
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	61–123	–
9	<b>Other Perennial Grasses</b>			37–61	
	Grass, perennial	2GP	<i>Grass, perennial</i>	37–61	–
<b>Shrub/Vine</b>					
8	<b>Warm Season</b>			37–61	
	New Mexico feathergrass	HENE5	<i>Hesperostipa neomexicana</i>	37–61	–
	giant dropseed	SPGI	<i>Sporobolus giganteus</i>	37–61	–
10	<b>Shrub</b>			61–123	
	sand sagebrush	ARFI2	<i>Artemisia filifolia</i>	61–123	–
	Havard oak	QUHA3	<i>Quercus havardii</i>	61–123	–
11	<b>Shrub</b>			34–61	
	fourwing saltbush	ATCA2	<i>Atriplex canescens</i>	37–61	–
	featherplume	DAFO	<i>Dalea formosa</i>	37–61	–
12	<b>Shrub</b>			37–61	
	jointfir	EPHED	<i>Ephedra</i>	37–61	–
	littleleaf ratany	KRER	<i>Krameria erecta</i>	37–61	–
13	<b>Other Shrubs</b>			37–61	
	Shrub (>.5m)	2SHRUB	<i>Shrub (&gt;.5m)</i>	37–61	–
<b>Forb</b>					
14	<b>Forb</b>			61–123	
	leatherweed	CRPOP	<i>Croton pottsii</i> var. <i>pottsii</i>	61–123	–
	Indian blanket	GAPU	<i>Gaillardia pulchella</i>	61–123	–

	globemallow	SPHAE	<i>Sphaeralcea</i>	61-123	-
15	<b>Forb</b>			12-37	
	woolly groundsel	PACA15	<i>Packera cana</i>	12-37	-
16	<b>Forb</b>			61-123	
	touristplant	DIWI2	<i>Dimorphocarpa wislizeni</i>	61-123	-
	woolly plantain	PLPA2	<i>Plantago patagonica</i>	61-123	-
17	<b>Other Forbs</b>			37-61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	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, blck 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, shinary 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 +

# Geological Map

## Legend

### Geology of New Mexico, USA

- alluvium
- andesite
- basalt
- carbonate
- clastic
- clay or mud
- coarse-grained mixed clastic
- conglomerate
- eolian
- evaporite
- felsic metavolcanic rock
- felsic volcanic rock
- fine-grained mixed clastic
- granodiorite
- indeterminate
- lake or marine deposit (non-glacial)
- landslide
- lava flow
- limestone
- mafic metavolcanic rock
- medium-grained mixed clastic
- metamorphic rock
- metasedimentary rock
- mudstone
- playa
- plutonic rock (phaneritic)
- pyroclastic
- quartz monzonite

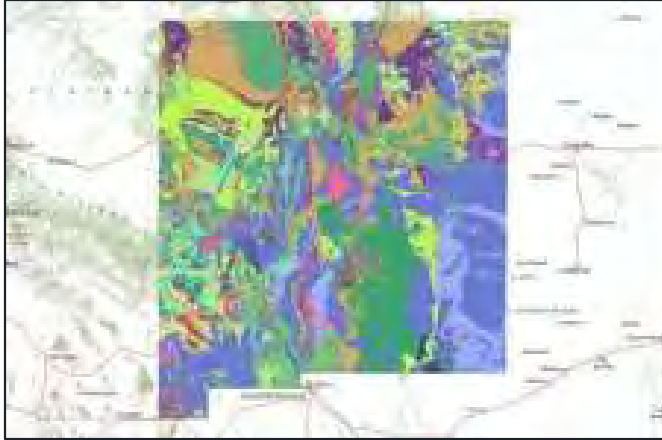
(Continued on next slide)



## Map Details

**Created:** Sept. 5, 2025 by Data Basin Temporary User (Last modified on Sept. 5, 2025)

## Map Contents



### Geology of New Mexico, USA

<https://databasin.org/datasets/216c664011134afabb351937aff06f6d/>

**Credits:** Douglas B. Stoeser, Gregory N. Green, Laurie C. Morath, William D. Heran, Anna B. Wilson, David W. Moore, Bradley S. Van Gosen

## APPENDIX C

### CORRESPONDENCE



**RE: [EXTERNAL] nAPP2516154121/nAPP2520944996/nAPP2521924784 Ragin Cajun 12 CTB 3 Liner Inspection Notification**

**From** Raley, Jim <Jim.Raley@dvn.com>  
**Date** Mon 2025-08-18 8:47 AM  
**To** Monica Peppin <Monica.Peppin@kljeng.com>  
**Cc** Will Harmon <will.harmon@kljeng.com>

**CAUTION:** This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Submitted 8/18/2025

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



**From:** Monica Peppin <Monica.Peppin@kljeng.com>  
**Sent:** Monday, August 18, 2025 8:00 AM  
**To:** Raley, Jim <Jim.Raley@dvn.com>  
**Cc:** Will Harmon <will.harmon@kljeng.com>  
**Subject:** [EXTERNAL] nAPP2516154121/nAPP2520944996/nAPP2521924784 Ragin Cajun 12 CTB 3 Liner Inspection Notification

Jim,

Here is the liner notice for the following three incidents at the Ragin Cajun 12 CTB 3:

nAPP2516154121, nAPP2520944996, and nAPP2521924784

Let me know if you need any adjustments to time or date or have any questions.

<b>Liner Inspection Notification</b>	
<b>Site Name</b>	<b>Ragin Cajun 12 CTB 3</b>
<b>Incident ID</b>	nAPP2516154121 nAPP2520944996 nAPP2521924784
<b>Containment Surface Area (Square Feet)</b>	4,100



<b>All impacted materials have been removed from liner?</b>	Yes
<b>Liner Inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC</b>	8/22/2025
<b>Inspection Time</b>	10:30 AM
<b>Contact info of technician for observers</b>	Monica Peppin
<b>Navigation to site (Lat/Long)</b>	32.061330, -103.419596

Thank you,  
MP

Monica Peppin, A.S.  
Environmental Specialist II



575-213-9010 Direct

575-909-3418 Cell

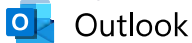
Carlsbad, NM 88220

[kljeng.com](http://kljeng.com)



[Book time to meet with me](#)

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**RE: [EXTERNAL] nAPP2516154121/nAPP2520944996/nAPP2521924784 Ragin Cajun 12 CTB 3 Liner Inspection Scheduling Update**

---

**From** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**Date** Mon 2025-08-25 7:28 AM

**To** Monica Peppin <Monica.Peppin@kljeng.com>

**Cc** Raley, Jim <jim.ralej@dmn.com>; Will Harmon <will.harmon@kljeng.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

You don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

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Good morning Monica,

Thank you for providing the update to the OCD. The incident event details have been updated to reflect this information.

Kind regards,

Shelly

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Monica Peppin <Monica.Peppin@kljeng.com>

**Sent:** Friday, August 22, 2025 5:52 PM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

**Cc:** Raley, Jim <jim.ralej@dmn.com>; Will Harmon <will.harmon@kljeng.com>

**Subject:** [EXTERNAL] nAPP2516154121/nAPP2520944996/nAPP2521924784 Ragin Cajun 12 CTB 3 Liner Inspection Scheduling Update

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Dear Regulatory Representative,

This is to inform you that the scheduled liner inspection at Ragin Cajun 12 CTB 3 for the following three incidents, nAPP2516154121/nAPP2520944996/nAPP2521924784, could not be completed as planned.

Upon arrival, it was observed that the liner within the containment was not in a condition suitable for inspection due to the presence of surface residue.

The inspection will be rescheduled once the liner has been cleaned and is ready for evaluation.

Thank you,  
Monica

Monica Peppin, A.S.  
Environmental Specialist II



575-213-9010 **Direct**

575-909-3418 **Cell**

Carlsbad, NM 88220

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[Draft] Re: [EXTERNAL] nAPP2516154121/nAPP2520944996/nAPP2521924784 Ragin Cajun 12 CTB 3 Liner Inspection Notification

From Monica.Peppin@kljeng.com  
Draft saved Tue 2025-08-26 3:04 PM  
To Raley, Jim <Jim.Raley@dvn.com>  
Cc Will Harmon <will.harmon@kljeng.com>

From: Raley, Jim <Jim.Raley@dvn.com>  
Sent: Tuesday, August 26, 2025 7:17 AM  
To: Monica Peppin <Monica.Peppin@kljeng.com>  
Cc: Will Harmon <will.harmon@kljeng.com>  
Subject: RE: [EXTERNAL] nAPP2516154121/nAPP2520944996/nAPP2521924784 Ragin Cajun 12 CTB 3 Liner Inspection Notification

Submitted 8/26

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



From: Monica Peppin <Monica.Peppin@kljeng.com>  
Sent: Monday, August 25, 2025 6:21 PM  
To: Raley, Jim <Jim.Raley@dvn.com>  
Cc: Will Harmon <will.harmon@kljeng.com>  
Subject: Re: [EXTERNAL] nAPP2516154121/nAPP2520944996/nAPP2521924784 Ragin Cajun 12 CTB 3 Liner Inspection Notification

Jim,

Here is the liner notification that is being rescheduled for the following three incidents at the Ragin Cajun 12 CTB 3:

nAPP2516154121, nAPP2520944996, and nAPP2521924784

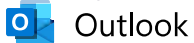
Let me know if you need any adjustments to time or date or have any questions.

Liner Inspection Notification	
Site Name	Ragin Cajun 12 CTB 3
Incident ID	nAPP2516154121 nAPP2520944996 nAPP2521924784
Containment Surface Area (Square Feet)	4,100
All impacted materials have been removed from liner?	Yes
Liner Inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	8/28/2025
Inspection Time	10:30 AM
Contact info of technician for observers	Monica Peppin
Navigation to site (Lat/Long)	32.061330, -103.419596

From: Raley, Jim <Jim.Raley@dvn.com>  
Sent: Monday, August 18, 2025 8:47 AM  
To: Monica Peppin <Monica.Peppin@kljeng.com>  
Cc: Will Harmon <will.harmon@kljeng.com>  
Subject: RE: [EXTERNAL] nAPP2516154121/nAPP2520944996/nAPP2521924784 Ragin Cajun 12 CTB 3 Liner Inspection Notification

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Submitted 8/18/2025



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RE: [EXTERNAL] nAPP2516154121 Ragin Cajun 12 CTB 3 Extension Request

---

From Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Date Tue 2025-09-09 9:19 AM

To Monica Peppin <Monica.Peppin@kljeng.com>

Cc Will Harmon <will.harmon@kljeng.com>; Raley, Jim <jim.rale@dv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

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Hi Monica,

Your remediation closure report was due to the OCD on 9/8/2025. OCD will grant a 14-day extension but be advised that an extension should be requested prior to the deadline lapsing. The due date for the remediation closure report to be submitted to the OCD is 9/22/2025.

Sincerely,

Shelly

Shelly Wells \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Monica Peppin <Monica.Peppin@kljeng.com>

**Sent:** Tuesday, September 9, 2025 9:12 AM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

**Cc:** Will Harmon <will.harmon@kljeng.com>; Raley, Jim <jim.rale@dv.com>

**Subject:** [EXTERNAL] nAPP2516154121 Ragin Cajun 12 CTB 3 Extension Request

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD,

On behalf of Devon Energy, KLJ respectfully requests a 14-day extension for the closure report associated with Incident ID nAPP2516154121, located at Ragin Cajun 12 CTB 3.

The report is currently in progress and is being prepared to incorporate multiple incidents associated with the same containment area. The additional time is requested to allow for final review and completion of the combined documentation to ensure consistency and regulatory compliance.

We appreciate your consideration of this request. Please don't hesitate to reach out if additional information is needed.

Thank you,

Monica Peppin

Monica Peppin, A.S.  
Environmental Specialist II




575-213-9010 Direct

575-909-3418 Cell

Carlsbad, NM 88220

[kljeng.com](http://kljeng.com)

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

QUESTIONS

Action 507062

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 507062
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2520944996
Incident Name	NAPP2520944996 RAGIN CAJUN 12 CTB 3 @ FAPP2423338309
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2423338309] RAGIN CAJUN 12 CTB 3

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	RAGIN CAJUN 12 CTB 3
Date Release Discovered	07/27/2025
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 37 BBL   Recovered: 37 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)	Transfer pump swedge developed pinhole leak. Allowing fluids to be released to lined secondary containment.

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QUESTIONS, Page 2

Action 507062

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 507062
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>

*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	Not answered.

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation 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: 09/18/2025
--	--



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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 507062

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 507062
	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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
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
<i>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.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/20/2025
On what date will (or did) the final sampling or liner inspection occur	08/28/2025
On what date will (or was) the remediation complete(d)	08/28/2025
What is the estimated surface area (in square feet) that will be remediated	17100
What is the estimated volume (in cubic yards) that will be remediated	0

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 507062

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 507062
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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@dvsn.com Date: 09/18/2025
<i>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.</i>	

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 507062

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 507062
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Liner Inspection Information</b>	
Last liner inspection notification (C-141L) recorded	<b>499188</b>
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	<b>08/28/2025</b>
Was all the impacted materials removed from the liner	<b>Yes</b>
What was the liner inspection surface area in square feet	<b>4100</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>17100</b>
What was the total volume (cubic yards) remediated	<b>0</b>
Summarize any additional remediation activities not included by answers (above)	<b>Liner Inspected</b>

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

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including 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@dmv.com Date: 09/18/2025
--	--

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Phone: (505) 476-3441

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CONDITIONS

Action 507062

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 507062
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Liner inspection and remediation closure is approved.	9/24/2025