

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Release Location Name: Ochoa CTBDate of Release: 1/5/2025

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box,
flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0000 BBL WATER: 0.0000 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations							Standing Liquid Calculations												
Total Surface Area		width	length	wet soil depth	oil (%)		Standing Liquid Area		width	length	liquid depth	oil (%)							
Rectangle Area #1	0.00	ft	X	0.00	ft	X	0.00	in	0.00%	Rectangle Area #1	120.00	ft	X	60.00	ft	X	0.25	in	0.00%
Rectangle Area #2	0.00	ft	X	0.00	ft	X	0.00	in	0.00%	Rectangle Area #2	0.00	ft	X	0.00	ft	X	0.00	in	0.00%
Rectangle Area #3	0.00	ft	X	0.00	ft	X	0.00	in	0.00%	Rectangle Area #3	0.00	ft	X	0.00	ft	X	0.00	in	0.00%
Rectangle Area #4	0.00	ft	X	0.00	ft	X	0.00	in	0.00%	Rectangle Area #4	0.00	ft	X	0.00	ft	X	0.00	in	0.00%
Rectangle Area #5	0.00	ft	X	0.00	ft	X	0.00	in	0.00%	Rectangle Area #5	0.00	ft	X	0.00	ft	X	0.00	in	0.00%
Rectangle Area #6	0.00	ft	X	0.00	ft	X	0.00	in	0.00%	Rectangle Area #6	0.00	ft	X	0.00	ft	X	0.00	in	0.00%
Rectangle Area #7	0.00	ft	X	0.00	ft	X	0.00	in	0.00%	Rectangle Area #7	0.00	ft	X	0.00	ft	X	0.00	in	0.00%
Rectangle Area #8	0.00	ft	X	0.00	ft	X	0.00	in	0.00%	Rectangle Area #8	0.00	ft	X	0.00	ft	X	0.00	in	0.00%

ERROR - Standing Liquid Area larger than Total Area, Review Data Input

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil BBL Water BBL

Did leak occur before the separator?: ☐ YES ☒ N/A (place an "X")

Amount of Free Liquid
Recovered: 27 BBL

ERROR - Recovered volume
greater than spilled volume

Percentage of Oil in Free Liquid
Recovered: 0.00% (percentage)

Liquid holding factor *: 0.00 gal per gal

Use the following when the spill wets the grains of the soil.

* sand = .08 gallon liquid per gallon volume of soil.

* gravelly (caliche) loam = .14 gallon liquid per gallon volume of soil.

* sandy clay loam soil = .14 gallon liquid per gallon volume of soil.

* clay loam = .16 gallon liquid per gallon volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

* gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil.

* sandy loam = .5 gallon liquid per gallon volume of soil.

Saturated Soil Volume Calculations:

Total Solid/Liquid Volume: sq. ft. H₂O cu. ft. OIL cu. ft.

Estimated Volumes Spilled

Liquid in Soil: 0.0 BBL 0.0 BBL
Free Liquid: 26.7 BBL 0.0 BBL
Totals: 26.7 BBL 0.0 BBL

Free Liquid Volume Calculations:

Total Free Liquid Volume: 7,200 sq. ft. 150 H₂O cu. ft. OIL cu. ft.

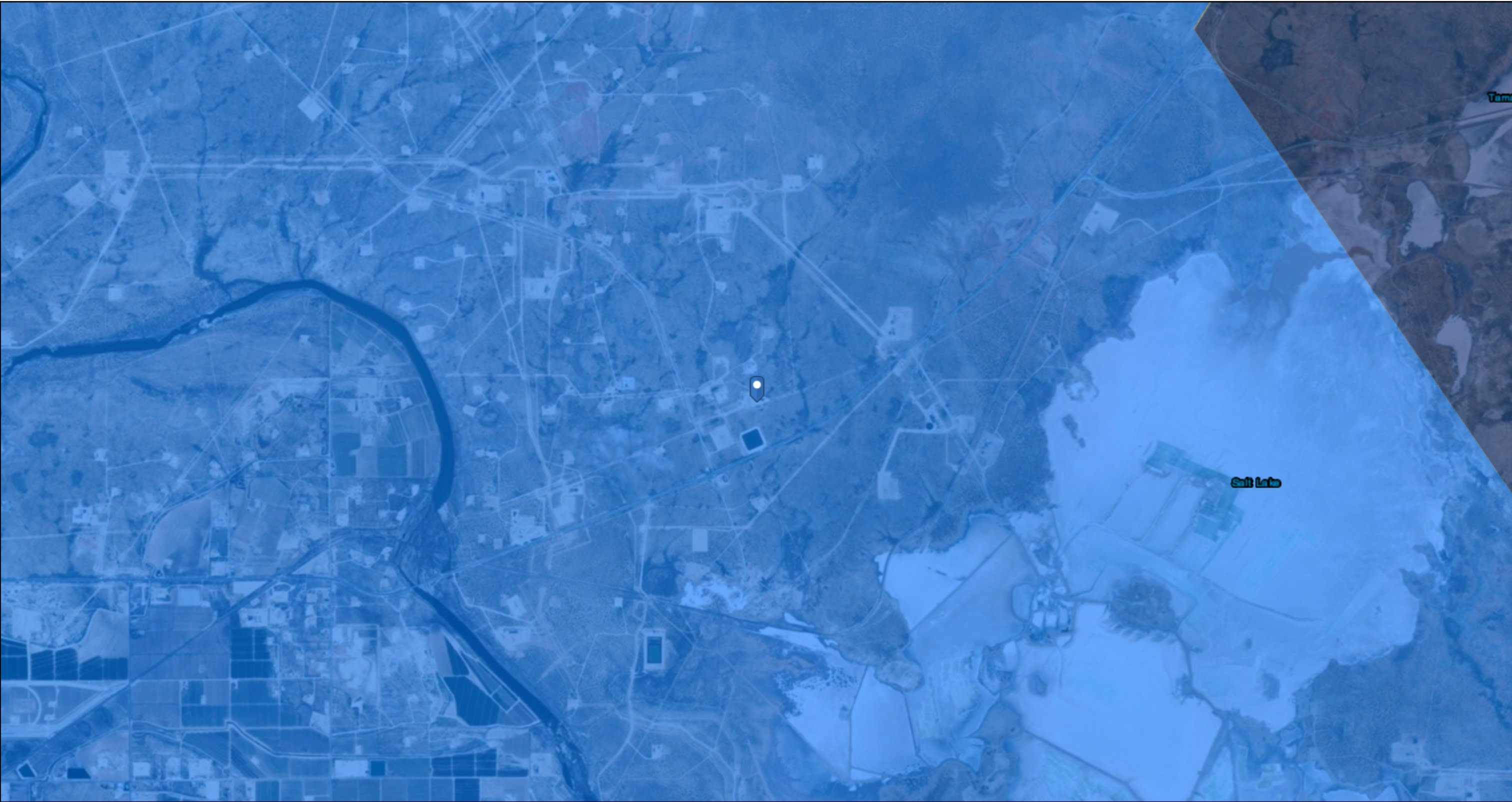
Estimated Production Volumes Lost

Estimated Production Spilled: 0.0 BBL 0.0 BBL

Estimated Surface Damage

Surface Area: 7,200 sq. ft.

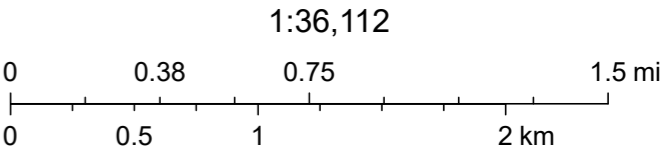
NM OCD - Permian Basin Karst Areas Map



7/31/2024, 10:46:19 AM

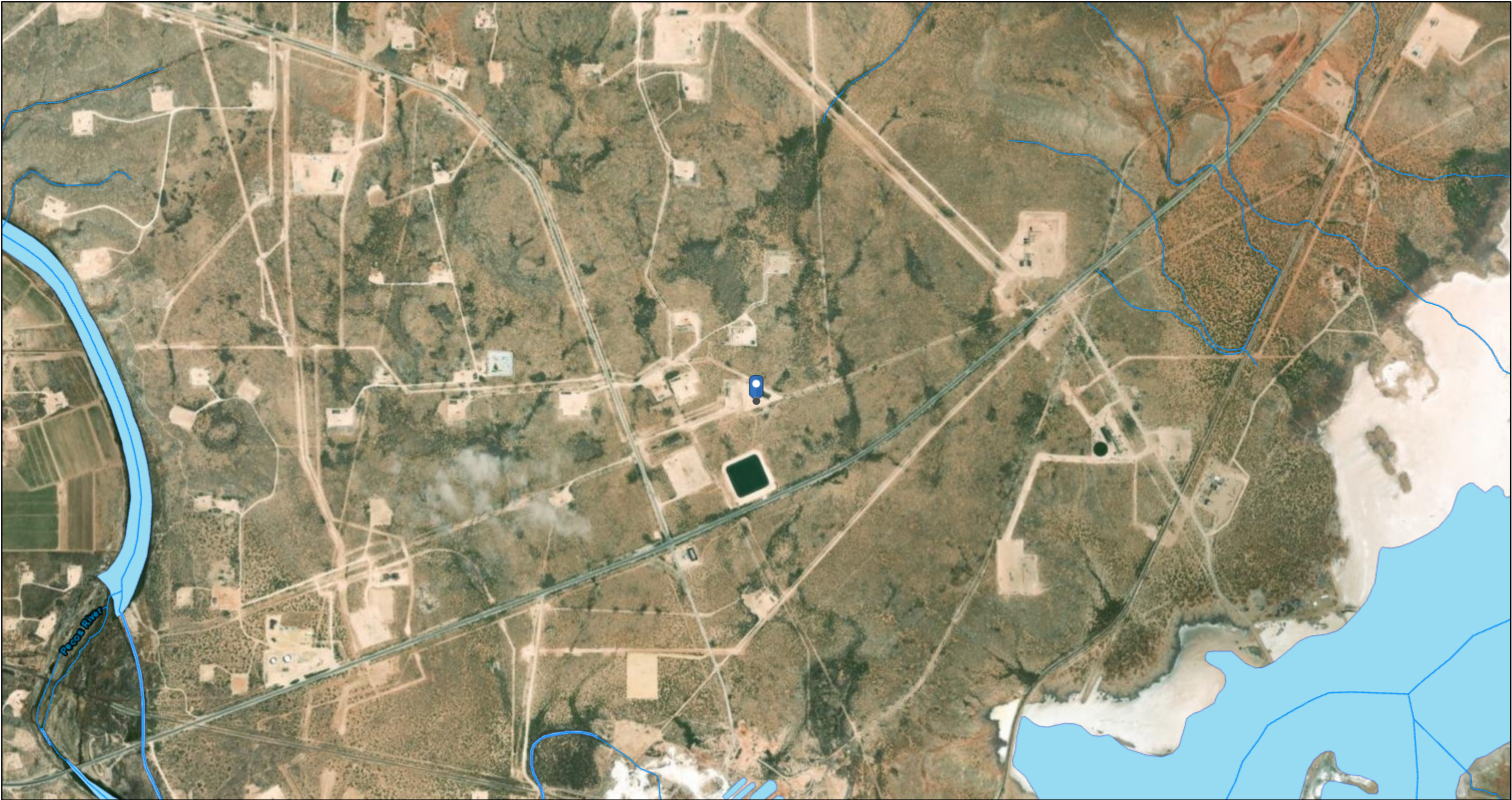
Karst Occurrence Potential

- High
- Medium



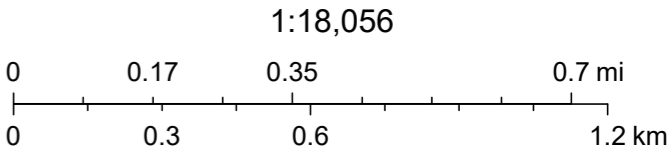
BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Maxar

NM OCD - Waterbodies Map



7/31/2024, 10:43:24 AM

- OSW Water Bodys
- OSE Streams



Esri, HERE, Garmin, IPC, Maxar, NM OSE

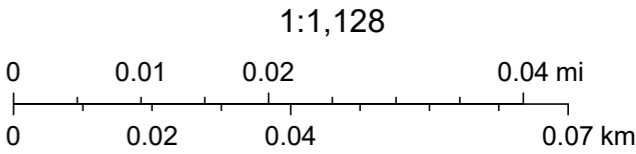
NM OCD - Land Ownership Map



7/31/2024, 10:41:08 AM

Land Ownership

- BLM
- PLSS Second Division
- PLSS First Division



U.S. BLM, Maxar, Microsoft, OCD, Esri, HERE, Garmin, iPC, BLM

OCD Land Ownership



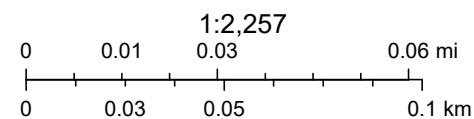
8/7/2024, 11:56:19 AM

Mineral Ownership

Land Ownership

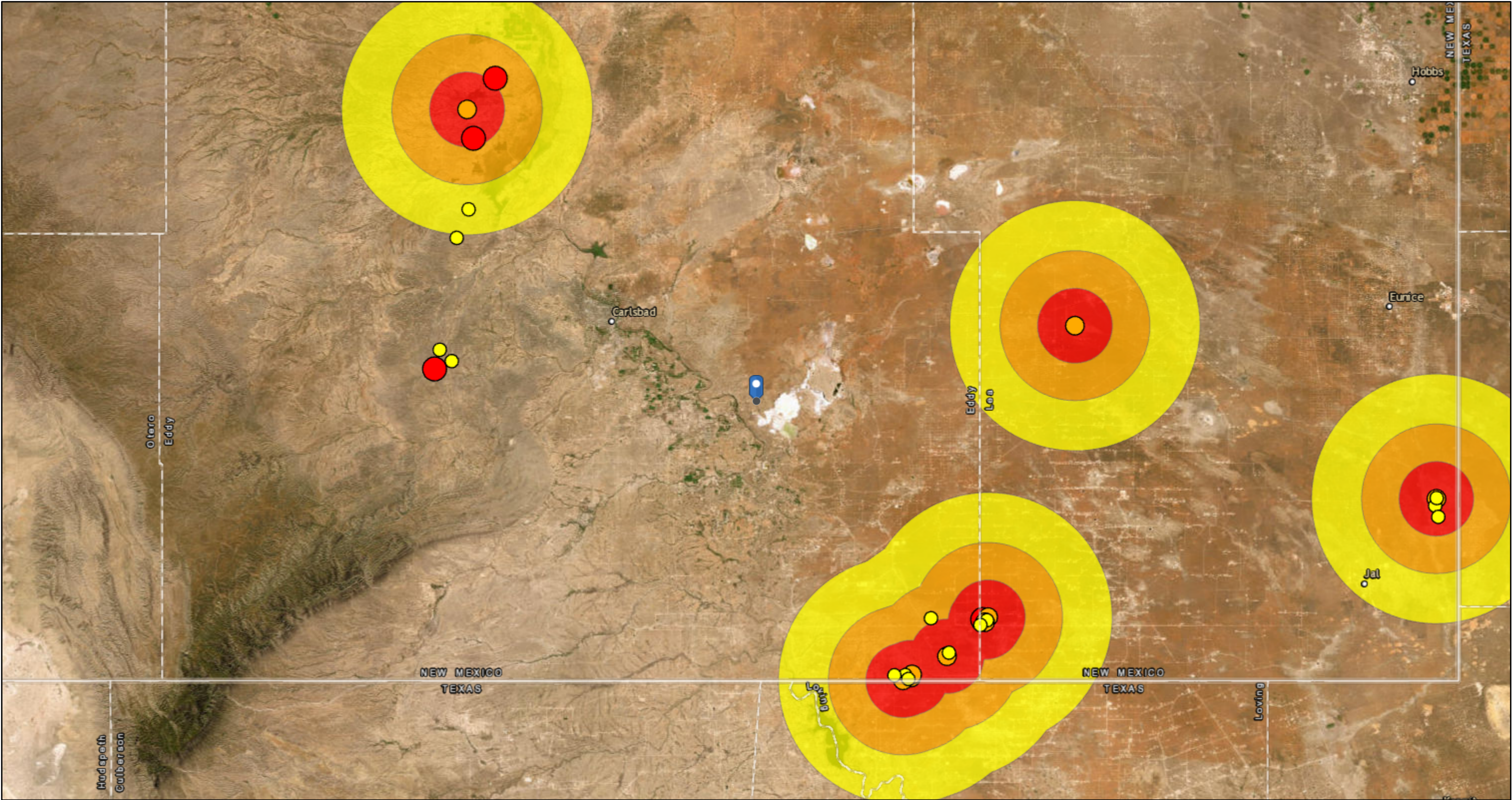
A-All minerals are owned by U.S.

BLM



U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, iPC

NM OCD - Induced Seismicity Area



7/31/2024, 11:02:20 AM

Seismic Response 3.0 to 3.4

3 mi.

6 mi.

10 mi.

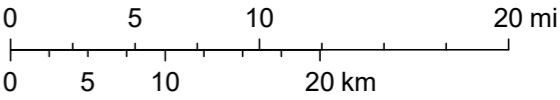
M2.5+ Earthquakes (2021+)

2.5 - 2.9

3.0 - 3.4

3.5 and above

1:577,791



Oil Conservation Division (OCD), Energy, Minerals and Natural Resources Department (EMNRD), Esri, HERE, Garmin, Earthstar Geographics



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 04470 POD1		CUB	ED	SW	NW	SW	07	23S	29E	591280.2	3576086.4		844			
C 04418 POD1		CUB	ED	SE	NE	NW	12	23S	28E	590103.6	3576851.2		1190	55		
C 04584 POD1		CUB	ED	SW	NW	SE	12	23S	28E	590391.8	3576064.2		1248	63		
C 04539 POD1		CUB	ED	NE	SE	NE	01	23S	28E	591034.4	3578223.2		1317	55		

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 4

UTM Filters (in meters):

Easting: 591290.96

Northing: 3576930.82

Radius: 001600

* UTM location was derived from PLSS - see Help

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

National Flood Hazard Layer FIRMette



104°2'7"W 32°19'47"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°1'30"W 32°19'17"N

Released to Imaging: 1/6/2025 2:36:03 PM

Basemap Imagery Source: USGS National Map 2023

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 D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
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 7/31/2024 at 12:02 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.



National Wetland Inventory Map



July 31, 2024

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.

Total Spill Liquid:		26.7 BBL	0.0 BBL	Surface Area: .1653 acre			
<u>Recovered Volumes</u>				<u>Estimated Weights, and Volumes</u>			
Estimated oil recovered:	0.0 BBL	check - okay		Saturated Soil =	lbs	cu.ft.	cu.yds.
Estimated water recovered:	26.7 BBL	ERROR - Recovered volume greater than spilled volume		Total Liquid =	27 BBL	1,122 gallon	9,335 lbs

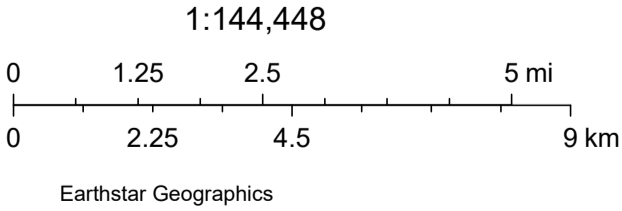
Active Mines in New Mexico



7/31/2024, 10:51:08 AM

Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ▲ Potash
- ▴ Salt



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 417306

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 417306
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500641830
Incident Name	NAPP2500641830 OCHOA CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2135654952] Ochoa

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Ochoa CTB
Date Release Discovered	01/05/2025
Surface Owner	Federal

Incident Details	
<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

Nature and Volume of Release	
<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: 27 BBL Recovered: 27 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)	A release was discovered at the Ochoa CTB on 01/05/2025. the release occurred due to a washed out seal on a water transfer charge pump. the release occurred and was contained within a lined containment area. approximately 26.72 barrels of produced water were released, of which all fluids were recovered.

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QUESTIONS, Page 2

Action 417306

QUESTIONS (continued)

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	Action Number: 417306
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QUESTIONS

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

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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: Nicholas Poole Title: with Tetrattech Email: nicholas.poole@tetrattech.com Date: 01/06/2025
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QUESTIONS, Page 3

Action 417306

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 417306
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<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>	
Requesting a remediation plan approval with this submission	No
<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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CONDITIONS

Action 417306

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	1/6/2025