

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: NE CAPROCK QN	Well Location: T12S / R32E / SEC 21 / NWNE / 33.2696622 / -103.7208324	County or Parish/State: LEA / NM
Well Number: 19	Type of Well: INJECTION - ENHANCED RECOVERY	Allottee or Tribe Name:
Lease Number: NMLC069224	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002500155	Operator: SIERRA BLANCA OPERATING CO	

Notice of Intent

Sundry ID: 2838338

Type of Submission: Notice of Intent

Type of Action: Reclamation

Date Sundry Submitted: 02/25/2025

Time Sundry Submitted: 08:22

Date proposed operation will begin: 02/25/2025

Procedure Description: Trigg Oil and Gas, LP plans to remediate the subject location in the near future. Please find the attached remediation plan. This plan is preliminary and is being evaluated by the landowners attorney before an agreement can be made.

Oral Submission

Oral Notification Date: Feb 23, 2025

Oral Notification Time: 12:00 AM

Contacted By: PHELPS WHITE

Contact's Email: pwiv@zianet.com

Comments: See attached NOI Sundry Notice for Reclamation & Site Assessment and Reclamation Work Plan Attachments (38 pages total – includes Sundry Notice) submitted by Consultant, Phelps White, for Trigg Oil & Gas, LP. Reclamation six-month approval until 08/25/2025. DNegrete

NOI Attachments

Comments

Caprock_Queen_Sand_Unit_19_Sundry_Reclamation_signed_with_Attachments_20250224142639.pdf

Well Name: NE CAP ROCK QN

Well Location: T12S / R32E / SEC 21 /
NWNE / 33.2696622 / -103.7208324

County or Parish/State: LEA /
NM

Well Number: 19

Type of Well: INJECTION - ENHANCED
RECOVERY

Allottee or Tribe Name:

Lease Number: NMLC069224

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002500155

Operator: SIERRA BLANCA
OPERATING CO

BLM Point of Contact

BLM POC Name: DINAH C NEGRETE

BLM POC Title: Sr. Production Accountability Technician

BLM POC Phone: 5752345952

BLM POC Email Address: dnegrete@blm.gov

Disposition: Accepted

Disposition Date: 02/25/2025

Signature: DINAH NEGRETE

CONFIDENTIAL

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

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.	NMLC069224
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2

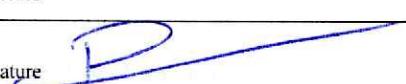
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	7. If Unit of CA/Agreement, Name and/or No. NE Caprock Queen Unit
2. Name of Operator Sierra Blanca Operating Company/Trigg Oil & Gas, LP	8. Well Name and No. NE Caprock Queen Sand Unit #019
3a. Address 18291 N. Pima Rd., Ste. 110, Box 410 Scottsdale, AZ 85255	9. API Well No. 3002500155
3b. Phone No. (include area code) (575) 622-1001	10. Field and Pool or Exploratory Area Caprock Queen
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	11. Country or Parish, State Lea County, NM

12. CHECK THE 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"/> Hydraulic Fracturing	<input checked="" 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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<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 recomplete 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 recompletion 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.)

Trigg Oil and Gas, LP plans to remediate the subject location in the near future. Please find the attached remediation plan. This plan is preliminary and is being evaluated by the landowners attorney before an agreement can be made.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Phelps White	Consultant Title
Signature 	Date 2/23/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
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.	Office	

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)



Site Assessment and Reclamation Work Plan

**Sierra Blanca Operating Company
Northeast Caprock Queen Unit #19
Lea County, New Mexico**

**Unit Letter "B", Section 21, Township 12 South, Range 32 East
Latitude 33.269729 North, Longitude 103.720809 West**

API #: 30-025-00155

Prepared For:

Sierra Blanca Operating Company
18291 N. Pima Rd., Ste. 110, Box 410
Scottsdale, AZ 85255

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260
Office: (575) 393-3386

February 2025

A handwritten signature in black ink, appearing to read "Daniel Dominguez", is written over a horizontal line.

Daniel Dominguez
Environmental Director
ddominguez@hungry-horse.com

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HUNGRY HORSE, LLC

The following *Site Assessment and Reclamation Work Plan* serves as a condensed update on proposed reclamation activities at the afore referenced Site.

Background:

The site is located in Unit Letter B (NW/NE), Section 21, Township 12 South, Range 32 East, approximately twenty-eight miles West of Tatum, in Lea County, New Mexico. The property is located on private land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The location is a plugged well and well pad; Latitude 33.269729 North, Longitude 103.720809 West. Information available on the NMOCD Portal indicates the well was plugged on July 14, 2004. Previously submitted information is available on the NMOCD Permitting Portal.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in an Erosional Karst designated area. Groundwater depth information is provided as Attachment II and the results are depicted on Figures 2 and 3.

No water wells were located within a half mile of the release area. Therefore, as the site is also located in an Erosional Karst designated area, the site will be reclaimed according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of reclamation. Web Soil Survey indicates the area is located in the Kimbrough-Lea complex comprised of gravelly loam soils with 0 to 3 percent slopes. Landowner approved seed Mixture will be utilized for seeding the area after reclamation activities are complete. Karst, Wetland, and Soil Maps are provided as Attachment I.



Proposed Reclamation Actions:

In accordance with NMOCD Regulations, and based upon laboratory analytical results, site characteristics, and field observations made during the initial site assessment, the following reclamation activities are proposed in an effort to advance the site toward approved reclamation.

- Delineation sampling began on January 31, 2025; however, complete delineation was not achieved at each sample location. Sample locations SP1, SP2, SP3, and SP5, will require additional delineation.
- Sample locations SP1, SP2, SP3, and SP5, will be fully delineated, according to the strictest NMOCD Closure Criteria.
- Soil samples will be submitted to the laboratory for analysis of BTEX, TPH, and chloride.
- Based upon laboratory analytical results, the area characterized by sample locations SP1 through SP5, will be excavated to depth of clean submitted sample, or until closure criteria is achieved.
- Excavated contaminated soil will be hauled to an NMOCD approved disposal facility.
- The excavated area will then be backfilled with locally sourced, clean, non-impacted, soil, scarified, and seeded.
- The affected area will be seeded with landowner approved seed mixture.
- Reclamation activities are expected to be completed within 30 days of receiving landowner approval of the Site Assessment and Reclamation Work Plan.

Sampling Plan:

The reclamation area will be fully delineated according to the strictest NMOCD Closure Criteria. Delineation soil samples will be submitted to the laboratory for analysis of BTEX, TPH, and chloride.

Restoration, Reclamation, and Re-Vegetation:

Upon completion of reclamation activities, the excavation area will be backfilled with locally sourced, clean, non-impacted soil, of the same soil type as was excavated.

The soil backfill will included a cover top layer, which matches observable surrounding top layer thickness, backfilled with locally sourced, clean, non-impacted topsoil to provide suitable material to establish vegetative growth. The area will then be contoured the site's existing grade to prevent ponding of water and erosion of the cover material. The affected area will then be tracked utilizing a dozer to ripple the soil to prepare the seed bed for seeding.

The affected area will then be seeded, via hand broadcast at double the recommended rate, with landowner approved seed mixture, free of noxious weeds, within thirty days following these completed reclamation activities.



Limitations:

Hungry Horse, LLC, has prepared this *Site Assessment and Reclamation Work Plan* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

Sierra Blanca Operating Company
18291 N. Pima Rd., Ste. 110, Box 410
Scottsdale, AZ 85255

Darr Angel
PO Box 190
Lovington, NM 88260

Figures

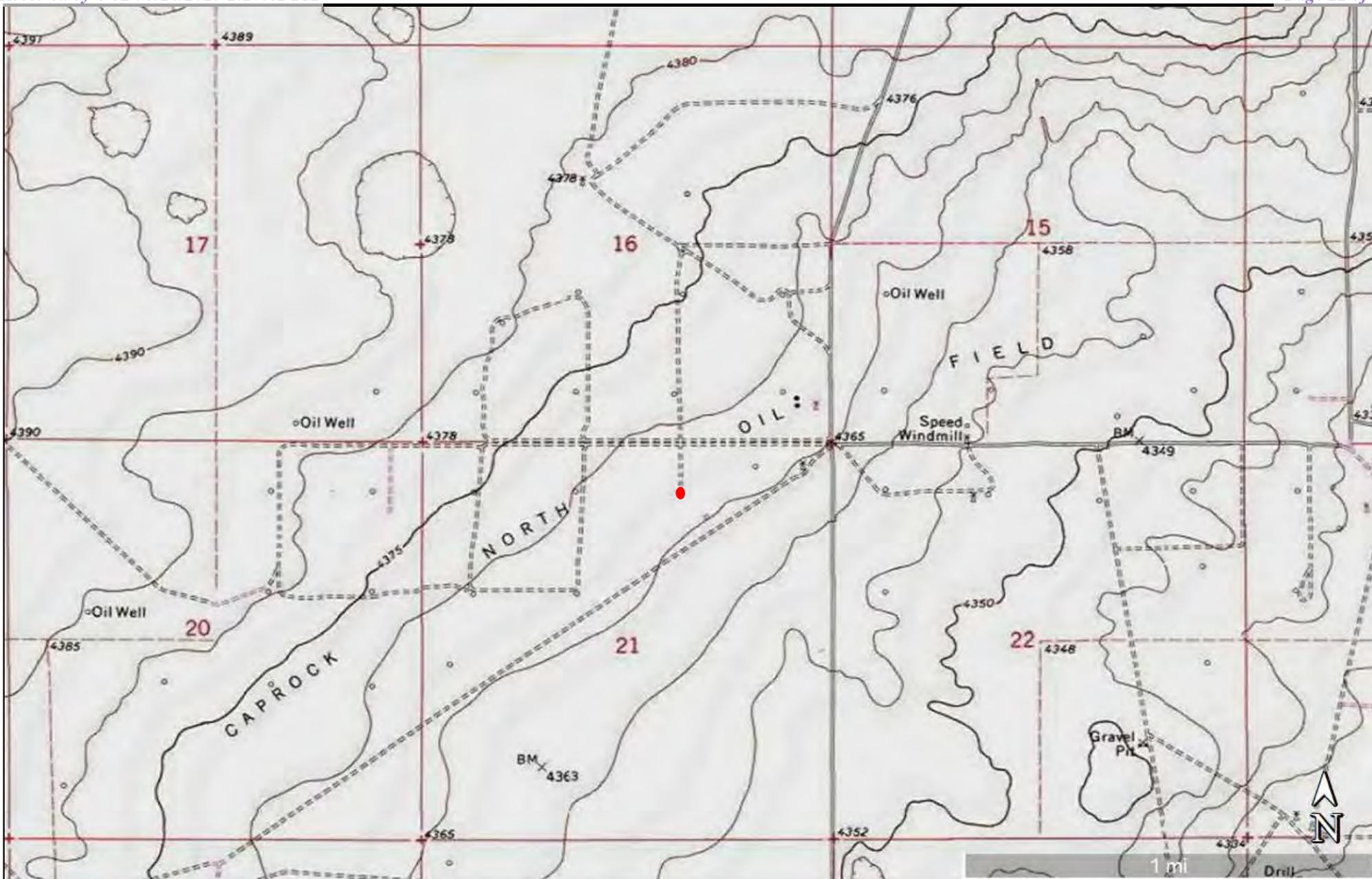


Figure 1

Topographic Map
 Sierra Blanca Operating Company
 NE Caprock Queen 19
 GPS: 33.26973, -103.72081
 Lea County

Legend:

● NE Caprock Queen 19 Location

Drafted: dd
 Checked: jh
 Date: 2/10/25



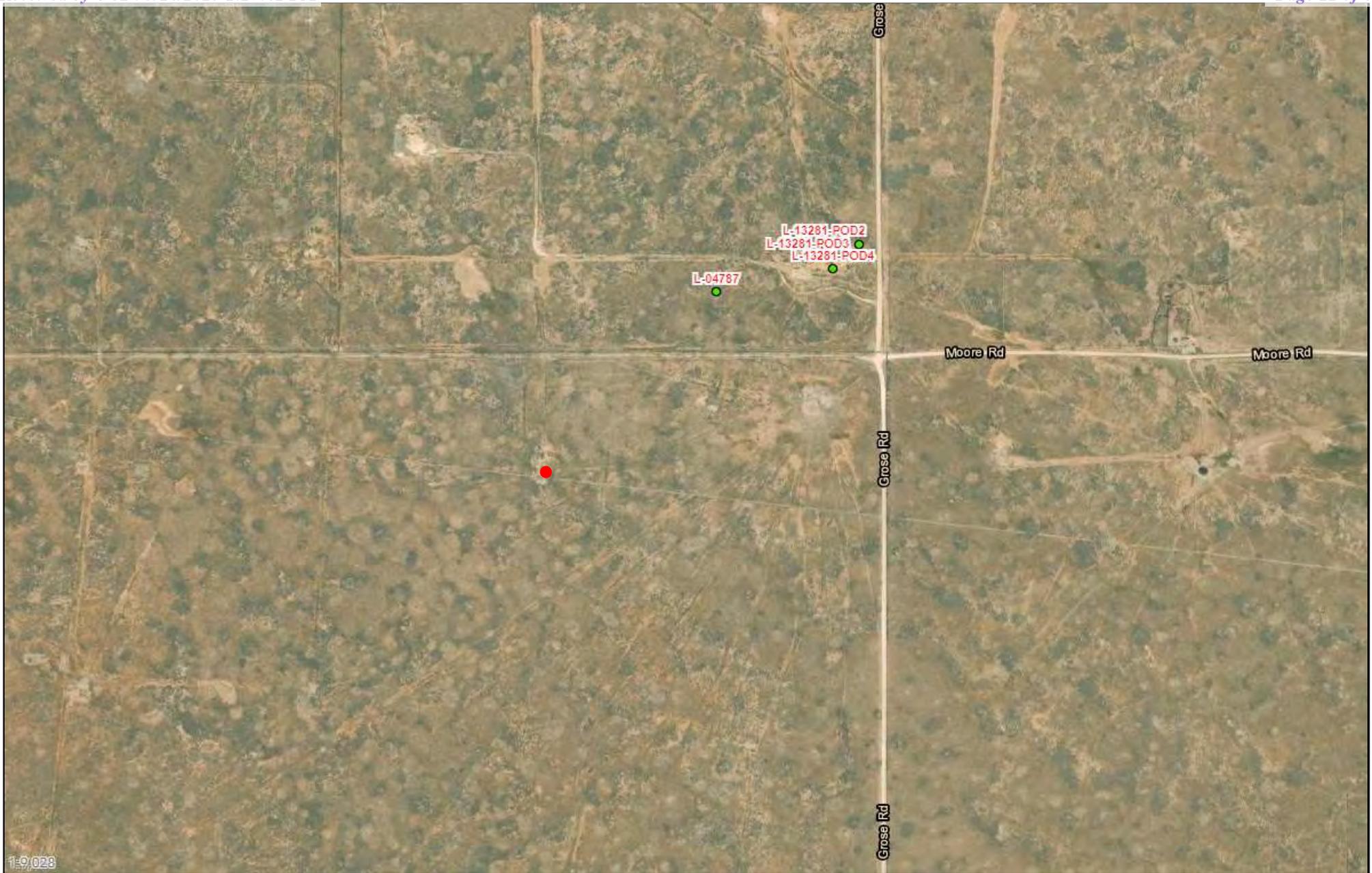


Figure 2
 OSE POD Locations Map
 Sierra Blanca Operating Company
 NE Caprock Queen 19
 GPS: 33.26973, -103.72081
 Lea County

Legend:

- NE Caprock Queen 19 Location
- Pending OSE Water Well

Drafted: dd
 Checked: jh
 Date: 2/10/25





Figure 3
 USGS Well Locations Map
 Sierra Blanca Operating Company
 NE Caprock Queen 19
 GPS: 33.26973, -103.72081
 Lea County

Legend:

- NE Caprock Queen 19 Location
- USGS Well Location

Drafted: dd
 Checked: jh
 Date: 2/10/25





Figure 4

Proposed Sampling and Reclamation Map
Sierra Blanca Operating Company
NE Caprock Queen 19
GPS: 33.26973, -103.72081
Lea County

Legend:

-  Reclamation Area
-  Delineation Sample Location



Drafted: dd
Checked: jh
Date: 2/10/25

Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Sierra Blanca Operating Company
NE Caprock Queen 19
API #: 30-025-00155

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1	1/31/25	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,000
SP2	1/31/25	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
SP3	1/31/25	Surf	In-Situ	<0.050	<0.300	<10.0	17.8	<20.0	43.8	61.6	1,200
	1/31/25	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
SP4	1/31/25	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	1/31/25	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SP5	1/31/25	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,720
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Karst, Wetland, and Soil Maps

Northeast Caprock Queen Unit #19



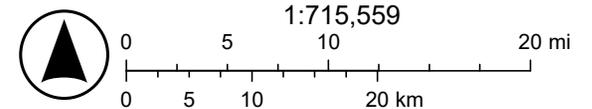
2/12/2025

- | | |
|---|---|
| Karst Type | ■ Volcanic |
| ■ Carbonate | World Imagery |
| ■ Erosional | Low Resolution 15m Imagery |
| ■ Gypsum | High Resolution 60cm Imagery |

High Resolution 30cm Imagery

Citations

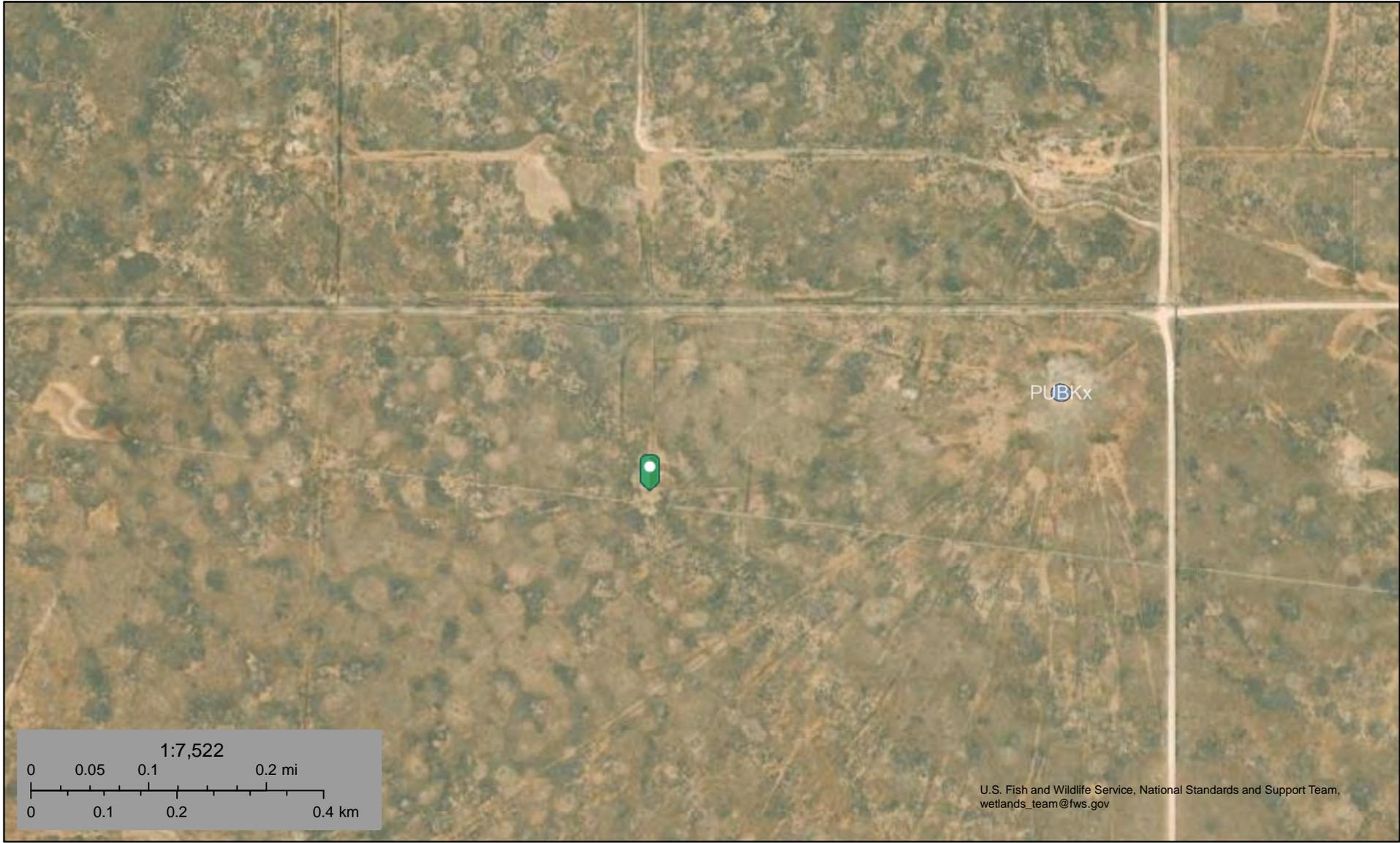
150m Resolution Metadata



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics



Northeast Caprock Queen Unit #19



February 12, 2025

Wetlands

-  Estuarine and Marine Deepwater
-  Freshwater Emergent Wetland
-  Lake
-  Estuarine and Marine Wetland
-  Freshwater Forested/Shrub Wetland
-  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.

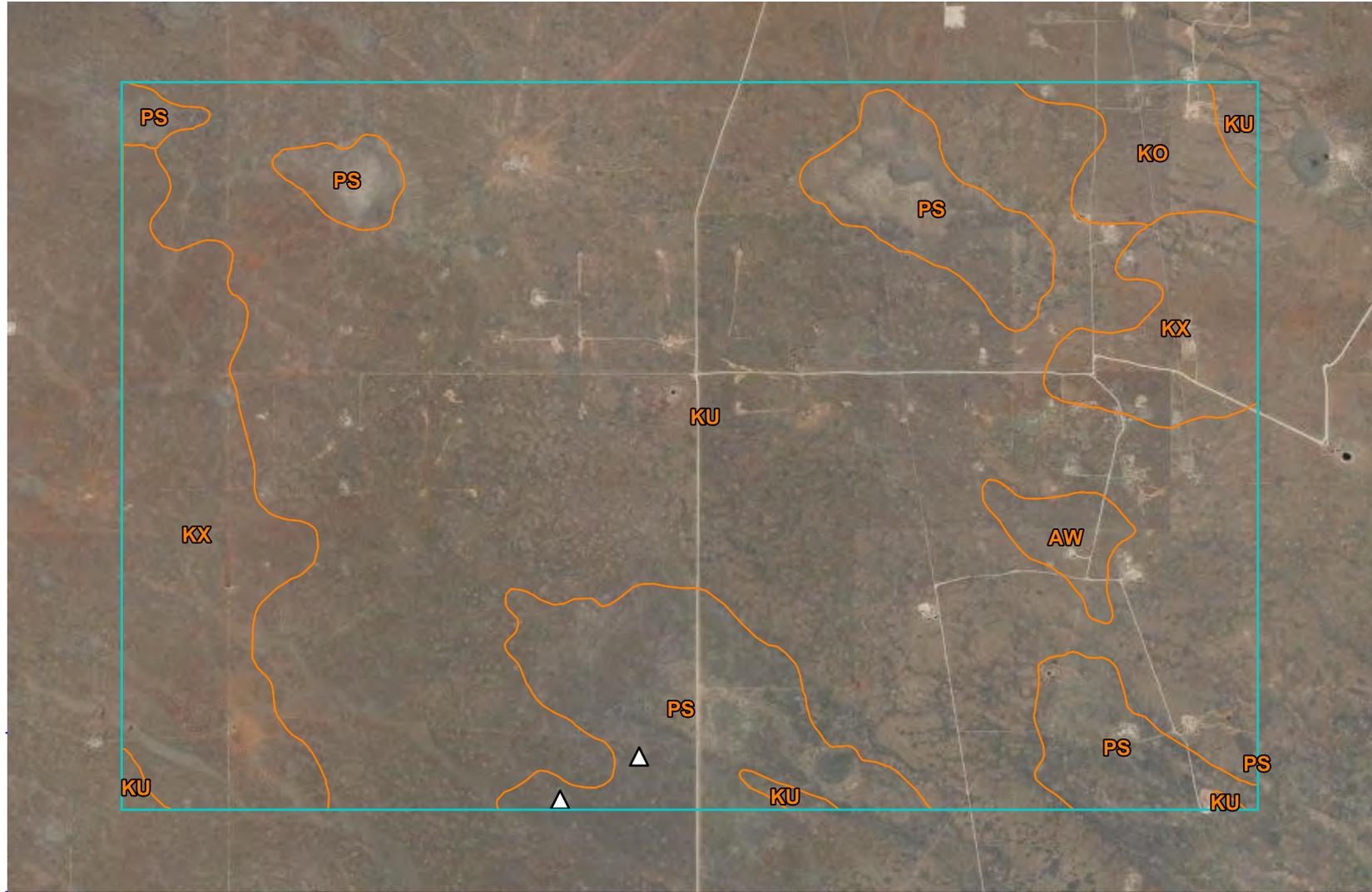
Soil Map—Lea County, New Mexico
(Northeast Caprock Queen Unit #19)

103° 45' 8" W

103° 40' 38" W

33° 17' 18" N

33° 17' 18" N

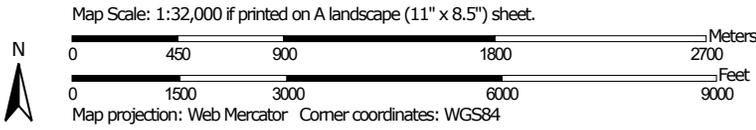


33° 14' 51" N

33° 14' 51" N

103° 45' 8" W

103° 40' 38" W



Soil Map—Lea County, New Mexico
(Northeast Caprock Queen Unit #19)

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.

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 5, 2021—Feb 8, 2021

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
AW	Arvana-Lea association	65.5	1.2%
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	136.6	2.5%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	3,658.0	68.2%
KX	Kimbrough-Spraberry complex, dry, 0 to 3 percent slopes	747.3	13.9%
PS	Portales-Stegall loams	753.5	14.1%
Totals for Area of Interest		5,361.1	100.0%

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent
Lea and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

Northeast Caprock Queen Unit #19

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

Northeast Caprock Queen Unit #19

Kenhill

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024

Attachment II

Depth to Groundwater



New Mexico Office of the State Engineer

Wells With Well Log Information

No report data available.

UTM Filters (in meters):

Easting: 619135.66

Northing: 3681919.48

Radius: 805

* 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.



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States

Click to hide News Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

i Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =
• 331607103422901

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 331607103422901 12S.32E.15.34343

Lea County, New Mexico
Latitude 33°16'18", Longitude 103°42'29" NAD27
Land-surface elevation 4,356.20 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1961-03-24			D 62610		4309.73	NGVD29	P		Z	
1961-03-24			D 62611		4311.45	NAVD88	P		Z	
1961-03-24			D 72019	46.47			P		Z	
1966-02-08			D 62610		4320.35	NGVD29	P		Z	
1966-02-08			D 62611		4322.07	NAVD88	P		Z	
1966-02-08			D 72019	35.85			P		Z	
1971-03-31			D 62610		4315.97	NGVD29	P		Z	
1971-03-31			D 62611		4317.69	NAVD88	P		Z	
1971-03-31			D 72019	40.23			P		Z	
1976-05-18			D 62610		4322.97	NGVD29	1		Z	
1976-05-18			D 62611		4324.69	NAVD88	1		Z	
1976-05-18			D 72019	33.23			1		Z	
1981-03-11			D 62610		4323.59	NGVD29	1		Z	
1981-03-11			D 62611		4325.31	NAVD88	1		Z	
1981-03-11			D 72019	32.61			1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2025-02-12 15:53:09 EST

0.36 0.27 nadww01

Attachment III
Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 06, 2025

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: NE CAPROCK QUEEN 19

Enclosed are the results of analyses for samples received by the laboratory on 02/03/25 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 19	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ B SEC 21 T12S - R32E		

Sample ID: SP 1 SURF (H250631-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.38	119	2.00	0.0202	
Toluene*	<0.050	0.050	02/04/2025	ND	2.16	108	2.00	1.03	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.10	105	2.00	0.466	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.13	102	6.00	0.307	
Total BTEX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	02/04/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	207	103	200	1.95	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	193	96.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 19	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ B SEC 21 T12S - R32E		

Sample ID: SP 2 SURF (H250631-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2025	ND	2.38	119	2.00	0.0202	
Toluene*	<0.050	0.050	02/04/2025	ND	2.16	108	2.00	1.03	
Ethylbenzene*	<0.050	0.050	02/04/2025	ND	2.10	105	2.00	0.466	
Total Xylenes*	<0.150	0.150	02/04/2025	ND	6.13	102	6.00	0.307	
Total BTEX	<0.300	0.300	02/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	02/04/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	207	103	200	1.95	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	193	96.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 19	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ B SEC 21 T12S - R32E		

Sample ID: SP 3 SURF (H250631-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	2.38	119	2.00	0.0202	
Toluene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	1.03	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.10	105	2.00	0.466	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.13	102	6.00	0.307	
Total BTEX	<0.300	0.300	02/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/04/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	207	103	200	1.95	
DRO >C10-C28*	17.8	10.0	02/04/2025	ND	193	96.3	200	3.20	
EXT DRO >C28-C36	43.8	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 19	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ B SEC 21 T12S - R32E		

Sample ID: SP 3 4' (H250631-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	2.38	119	2.00	0.0202	
Toluene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	1.03	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.10	105	2.00	0.466	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.13	102	6.00	0.307	
Total BTEX	<0.300	0.300	02/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	02/04/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/04/2025	ND	207	103	200	1.95	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	193	96.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 19	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ B SEC 21 T12S - R32E		

Sample ID: SP 4 SURF (H250631-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	2.38	119	2.00	0.0202	
Toluene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	1.03	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.10	105	2.00	0.466	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.13	102	6.00	0.307	
Total BTEX	<0.300	0.300	02/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/04/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	207	103	200	1.95	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	193	96.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 19	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ B SEC 21 T12S - R32E		

Sample ID: SP 4 3' (H250631-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	2.38	119	2.00	0.0202	
Toluene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	1.03	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.10	105	2.00	0.466	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.13	102	6.00	0.307	
Total BTEX	<0.300	0.300	02/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/04/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	207	103	200	1.95	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	193	96.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 19	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ B SEC 21 T12S - R32E		

Sample ID: SP 5 SURF (H250631-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2025	ND	2.38	119	2.00	0.0202	
Toluene*	<0.050	0.050	02/05/2025	ND	2.16	108	2.00	1.03	
Ethylbenzene*	<0.050	0.050	02/05/2025	ND	2.10	105	2.00	0.466	
Total Xylenes*	<0.150	0.150	02/05/2025	ND	6.13	102	6.00	0.307	
Total BTEX	<0.300	0.300	02/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	02/04/2025	ND	448	112	400	3.64	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2025	ND	207	103	200	1.95	
DRO >C10-C28*	<10.0	10.0	02/05/2025	ND	193	96.3	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	02/05/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #:	
Project Manager: Daniel Dominguez		Company: Sierra Blanca Operating Company	
Address: PO Box 1058		Attn: Phelps White	
City: Hobbs	State: NM	Address: 18291 N. Pima Rd., Ste.	
Phone #: 575 393-3386	Fax #:	Address: 110. Box 410	
Project #:	Project Owner: Sierra Blanca Operating Company	City: Scottsdale	
Project Name: NE Caprock Queen 19	State: AZ	Zip: 85255	
Project Location: U/V B Sec 21 T12S - R32E	Phone #: 575-626-7660		
Sampler Name: Jerry Heidelberg	Fax #:		

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX 8021
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H25X131	SP1	Surf	G	1	X											
	SP2	Surf	G	1	X											
	SP3	Surf	G	1	X											
	SP3	Surf	G	1	X											
	SP4	Surf	G	1	X											
	SP4	Surf	G	1	X											
	SP5	Surf	G	1	X											

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Relinquished By: <i>[Signature]</i>	Date: 3-3-25	Received By: <i>[Signature]</i>
Time: 14:15		

Delivered By: (Circle One) <i>CF+10.36 #440</i>	Sample Condition	CHECKED BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other: <i>-0.8c/-0.5c</i>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

REMARKS:

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

Email results to: pm@hungry-horse.com
 pwiv@zianet.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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

CONDITIONS

Action 442676

CONDITIONS

Operator: SIERRA BLANCA OPERATING COMPANY 808 Turner Cleburne, TX BADADDR	OGRID: 148869
	Action Number: 442676
	Action Type: [IM-SD] Well File Support Doc (ENG) (IM-AWF)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	accepted for record	3/14/2025