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

Sundry Print Report

02/25/2025

Well Name: NE CAPROCK QN

Well Location: T12S / R32E / SEC 21 / NENE / 33.2705739 / -103.7175944

County or Parish/State: LEA / NM

Well Number: 20

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC069224

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002500156

Operator: SIERRA BLANCA OPERATING CO

Notice of Intent

Sundry ID: 2838326

Type of Submission: Notice of Intent

Type of Action: Reclamation

Date Sundry Submitted: 02/25/2025

Time Sundry Submitted: 08:18

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 (35 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

NE_Caprock_Queen_Sand_Unit_20_Sundry_Reclamation_signed_with_Attachments_20250224142157.pdf

Well Name: NE CAPROCK QN

Well Location: T12S / R32E / SEC 21 / NENE / 33.2705739 / -103.7175944

County or Parish/State: LEA / NM

Well Number: 20

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC069224

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002500156

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

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC069224

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. NE Caprock Queen Unit

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. NE Caprock Queen Sand Unit #020

2. Name of Operator Sierra Blance Operating Company/Trigg Oil & Gas, LP

9. API Well No. 3002500156

3a. Address 18291 N. Pima Rd., Ste. 110, Box 410 Scottsdale, AZ 85255

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			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☑ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 perfonned 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 detennined 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 loandowners attourney before an agreement is made.

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

Title Consultant

Signature

Date 2/23/2025

THE SPACE FOR FEDERAL OR STATE OFICE 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 #20
Lea County, New Mexico
Unit Letter "A", Section 21, Township 12 South, Range 32 East
Latitude 33.270629 North, Longitude 103.717583 West
API #: 30-025-00156

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

Daniel Dominguez
Environmental Director
ddominguez@hungry-horse.com

Table Of Contents

Figures

Tables

Attachments

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 A (NE/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 33.270629 North, Longitude 103.717583 West. Information available on the NMOCD Portal indicates the well was plugged on July 16, 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 SP2, will require additional delineation.
- Sample locations SP2, 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 and SP2, 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

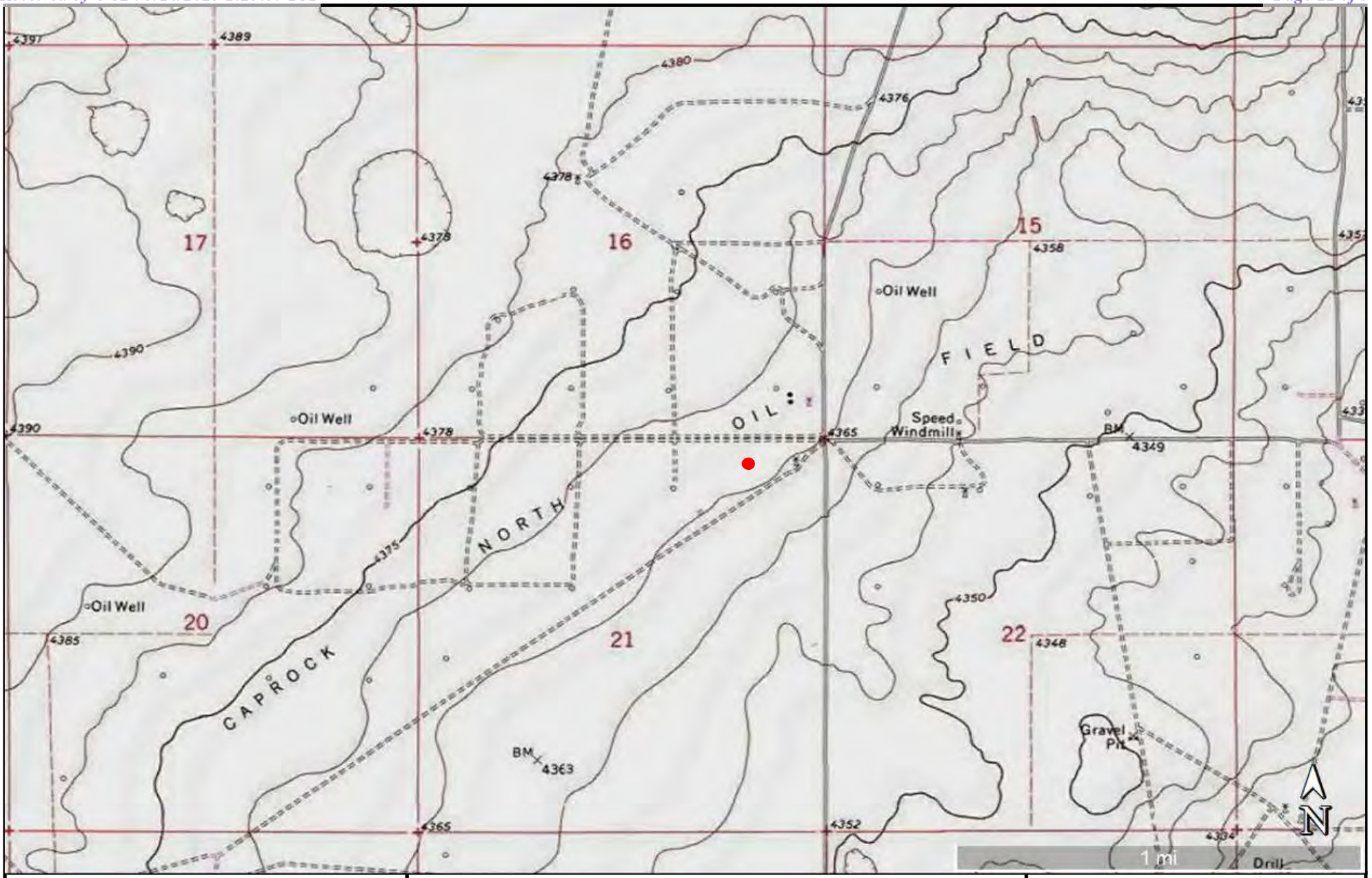


Figure 1
Topographic Map
Sierra Blanca Operating Company
NE Caprock Queen 20
GPS: 33.270629, -103.717583
Lea County

Legend:
- NE Caprock Queen 20 Location

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

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 2

OSE POD Locations Map
Sierra Blanca Operating Company
NE Caprock Queen 20
GPS: 33.270629, -103.717583
Lea County

Legend:

- NE Caprock Queen 20 Location
- Pending OSE Water Well

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

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 3

USGS Well Locations Map
Sierra Blanca Operating Company
NE Caprock Queen 20
GPS: 33.270629, -103.717583
Lea County

Legend:

- NE Caprock Queen 20 Location
- USGS Well Location

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

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 4

Proposed Sampling and Reclamation Map
Sierra Blanca Operating Company
NE Caprock Queen 20
GPS: 33.270629, -103.717583
Lea County

Legend:

Reclamation Area

SP1 Delineation Sample Location

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

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Table

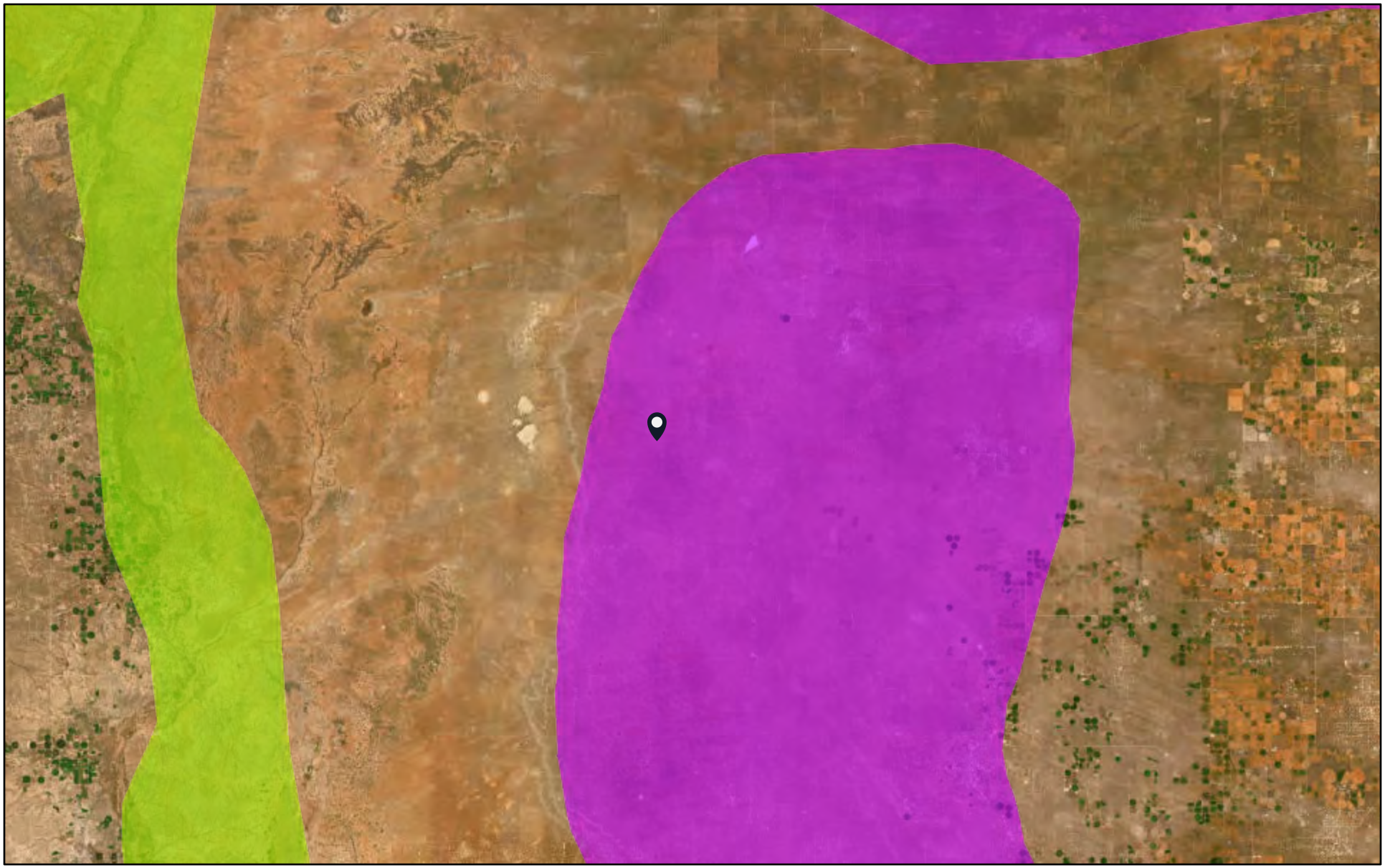
TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Sierra Blanca Operating Company
NE Caprock Queen 20
API #: 30-025-00156

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	**9,730**
	1/31/25	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
SP2	1/31/25	Surf	In-Situ	<0.050	<0.300	<10.0	39.3	39.3	32.3	71.6	224
	1/31/25	1	In-Situ	<0.050	<0.300	<10.0	117	117	102	**219**	336
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 #20



2/12/2025

Karst Type

- Carbonate
- Erosional
- Gypsum
- Volcanic

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

150m Resolution Metadata

1:715,559

0 5 10 20 mi

0 5 10 20 km

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

U.S. Fish and Wildlife Service
National Wetlands Inventory

Northeast Caprock Queen Unit #20

February 12, 2025

Wetlands

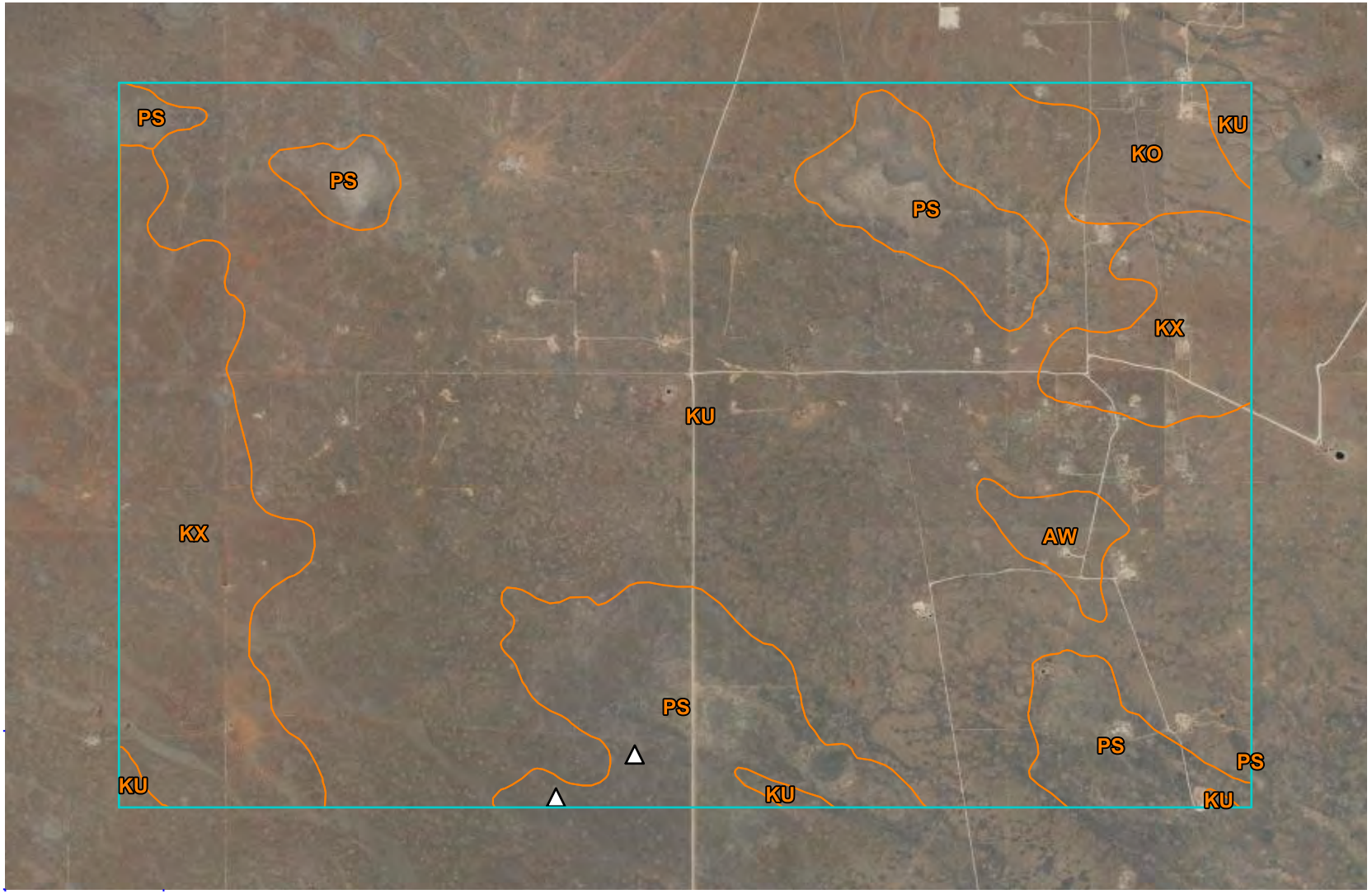
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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.

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

Soil Map—Lea County, New Mexico
(Northeast Caprock Queen Unit #20)

103° 45' 8" W
103° 40' 38" W
33° 17' 18" N
33° 14' 51" N



Map Scale: 1:32,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 450 900 1800 2700

Feet
0 1500 3000 6000 9000

Map projection: Web Mercator Corner coordinates: WGS84

Soil Map—Lea County, New Mexico
(Northeast Caprock Queen Unit #20)

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

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

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: 619435.71

Northing: 3682023.84

Radius: 805

*** UTM location was derived from PLSS - see Help**

Click to hideNews 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

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 (N100HGHPLN) 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 measure
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.

Attachment III
Laboratory Analytical Reports

CARDINAL Laboratories

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

February 07, 2025

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: NE CAPROCK QUEEN 20

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 accreditated 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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	02/07/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 20	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ A SEC 21 T12S - R32E		

Sample ID: SP 1 SURF (H250632-01)

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	02/05/2025	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 *89.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**9730**	16.0	02/04/2025	ND	448	112	400	3.64	

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 *91.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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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:	02/07/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 20	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ A SEC 21 T12S - R32E		

Sample ID: SP 1 6' (H250632-02)

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	02/05/2025	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 *90.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**480**	16.0	02/04/2025	ND	448	112	400	3.64	

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	197	98.7	200	1.49	
DRO >C10-C28*	<10.0	10.0	02/04/2025	ND	203	102	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	02/04/2025	ND					

Surrogate: 1-Chlorooctane *84.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.2 %* *49.1-148*

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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:	02/07/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 20	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ A SEC 21 T12S - R32E		

Sample ID: SP 2 SURF (H250632-03)

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 *91.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	02/04/2025	ND	448	112	400	3.64	

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	02/06/2025	ND	197	98.7	200	1.49	
DRO >C10-C28*	**39.3**	10.0	02/06/2025	ND	203	102	200	2.13	
EXT DRO >C28-C36	**32.3**	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane *90.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.0 %* *49.1-148*

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

Received:	02/03/2025	Sampling Date:	01/31/2025
Reported:	02/07/2025	Sampling Type:	Soil
Project Name:	NE CAPROCK QUEEN 20	Sampling Condition:	Cool & Intact
Project Number:	SIERRA BLANCA OPERATING	Sample Received By:	Tamara Oldaker
Project Location:	UL/ A SEC 21 T12S - R32E		

Sample ID: SP 2 1' (H250632-04)

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 *88.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**336**	16.0	02/04/2025	ND	448	112	400	3.64	

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	02/06/2025	ND	197	98.7	200	1.49	
DRO >C10-C28*	**117**	10.0	02/06/2025	ND	203	102	200	2.13	
EXT DRO >C28-C36	**102**	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane *92.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.2 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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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

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Hungry Horse LLC			BILL TO	
Project Manager:	Daniel Dominguez			P.O. #:	
Address:	PO Box 1058			Company:	Sierra Blanca Operating Compa
City:	Hobbs	State: NM	Zip: 88241	Attn:	Phelps White
Phone #:	575 393-3386	Fax #:		Address:	18291 N. Pima Rd., Ste. 110, Box 410
Project #:		Project Owner:	Sierra Blanca Operating Company	City:	Scottsdale
Project Name:	NE Caprock Queen 20			State: AZ	Zip: 85255
Project Location:	UL/ A Sec 21 T12S - R32E			Phone #:	575-626-7660
Sampler Name:	Jerry Heidelberg			Fax #:	

FOR LAB USE ONLY					MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021
H250632																		
1	SP1	Surf	G	1			X					X		1/31/25		X	X	X
2	SP1	6'	G	1			X					X		1/31/25		X	X	X
3	SP2	Surf	G	1			X					X		1/31/25		X	X	X
4	SP2	1'	G	1			X					X		1/31/25		X	X	X

Relinquished By: Jerry Heidelberg	Date: 2-5-25	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1415		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		Email results to: pm@hungry-horse.com, pwiv@zianet.com

Delivered By: (Circle One) CF +0.3°C #140
Sampler - UPS - Bus - Other: -0.8°C / -0.5°C

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

† 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 442675

CONDITIONS

Operator: SIERRA BLANCA OPERATING COMPANY 808 Turner Cleburne, TX BADADDR	OGRID: 148869
	Action Number: 442675
	Action Type: [IM-SD] Well File Support Doc (ENG) (IM-AWF)

CONDITIONS

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