

Location:	Hat Mesa 31 State 002	
Spill Date:	2/18/2025	
Area 1		
Approximate Area =	3237.00	sq. ft.
Average Saturation (or depth) of spill =	0.38	inches
Average Porosity Factor =	0.25	
VOLUME OF LEAK		
Total Crude Oil =	3.00	bbls
Total Produced Water =	5.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	3.00	bbls
Total Produced Water =	5.00	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	1.00	bbls
Total Produced Water =	2.00	bbls



Incident Number: nAPP2505144988

Release Assessment and Incident Closure

Hat Mesa 31 State #002

Section 31, Township 20 South, Range 33 East
32.53495, -103.69568

API: 30-025-34595

County: Lea

Vertex File Number: 25A-01125

Prepared for:

ExxonMobil Production Company

Prepared by:

Vertex Resource Services Inc.

Date:

October 2025

ExxonMobil Production Company
Hat Mesa 31 State #002

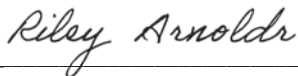
Release Assessment and Incident Closure
October 2025

Release Assessment and Incident Closure
Hat Mesa 31 State #002
Section 31, Township 20 South, Range 33 East
32.53495, -103.69568
API: 30-025-34595
County: Lea

Prepared for:
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ENVIRONMENTAL FIELD TECHNICIAN, REPORTING

10/23/2025

Date



Chad Hensley, B. Sc., GCNR
SENIOR PROJECT MANAGER TITLE, REPORT REVIEW

10/23/2025

Date

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1.0 Introduction

ExxonMobil Production Company (Exxon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Incident Closure for a crude oil and produced water release that occurred on February 18, 2025, at Hat Mesa 31 State #002, API: 30-025-34595 (hereafter referred to as the “site”). Exxon submitted a Notification of Release to New Mexico Oil Conservation Division (NMOCD) District 1 on February 20, 2025. On March 7, 2025, Exxon then submitted an initial C-141 Release Notification that was accepted and incident ID number nAPP2505144988 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on February 18, 2025, due to equipment failure. The incident was reported on February 20, 2025, and involved the release of approximately 3 barrels (bbl) of crude oil and 5 bbl of produced water on the pad site. Approximately 3 bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 35 miles northeast of Carlsbad, New Mexico. The legal location for the site is Unit B, Section 31, Township 20 South, Range 33 East in Lea County, New Mexico. The release area is located on state property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas storage.

The surrounding landscape is associated with plains, alluvial fans, uplands, or fan piedmonts with elevations ranging between 2,842 and 4,500 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses. Grasses with half-shrubs dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

The surface geology at the site primarily comprises Qep – Eolian and peidmont deposits (New Mexico Bureau of Geology and Mineral Resources, 2025) and the soil at the site is characterized as fine sandy loam (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Additional soil characteristics include a drainage class of well drained with a very high runoff class. The karst geology potential for the site is medium (United States Department of the Interior, Bureau of Land Management, 2018).

4.0 Closure Criteria Determination

The depth to groundwater was determined by drilling depth to groundwater borehole, CP-02063-POD1, permitted by the New Mexico Office of the State Engineer, 0.01-mile east of the site. The borehole was advanced to a depth of 105

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Hat Mesa 31 State #002

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feet below ground surface on June 9, 2025, resulting in a dry hole. Information pertaining to the depth to ground water determination is included in Appendix A.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located 1.65 miles northwest of the release (National Wetlands Inventory; United States Fish and Wildlife Service, 2025).

At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

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 Hat Mesa 31 State #002

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 October 2025

Table 1: Closure Criteria Determination			
Site Name: Hat Mesa 31 State #002			
Release Coordinates: 32.53495, -103.69568		X: 622483.82	Y: 3600483.25
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	100-500 ft	
	Distance between release and nearest DTGW reference	1 - 100 ft	
	Date of nearest DTGW reference measurement	June 9, 2025	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5mi <	
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	1 - 5 mi	
4	Within 300 feet from an occupied residence, school, hospital, institution or church	1 - 5 mi	
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	5mi <	
	ii) Within 1000 feet of any fresh water well or spring	5mi <	
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	1 - 5 mi	
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	5mi <	
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
	Distance between release and nearest unstable area	5mi <	
10	Within a 100-year Floodplain	>500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	5mi <	
11	Soil Type	fine sandy loam	
12	Ecological Classification	Shallow Sandy	
13	Geology	Qep	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

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The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release DTGW ≤ 50 feet bgs		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
≤ 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

DTGW – Depth to groundwater

bgs – below ground surface

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on March 25, 2025, which identified the area of the release specified in the initial C-141 Report, estimated the approximate volume of the release and white lined the area required for the One Call request. The impacted area was determined to be on pad; the total affected area is 2,510 square feet. The Daily Field Report associated with the site inspection is included in Appendix B.

Remediation efforts began on June 11, 2025, and were finalized on October 13, 2025. Vertex personnel supervised the excavation of impacted soils. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility as stipulated by the Form C-138 Request for Approval to Accept Solid. Daily Field Reports documenting various phases of the remediation are presented in Appendix B.

Notification that confirmatory samples were being collected was provided to the NMOCD at least 48 hours in advance for all sampling notifications on dates June 11, September 23 and 25, and October 8, 2025. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments on June 13, September 29 and 30, and October 13, 2025.

Thirteen confirmatory samples collected on September 29 and 30, 2025 exceeded site criteria (Appendix C). The base of the excavation was dug an additional 0.1 foot in areas where base samples exceeded closure criteria. These areas were then sampled on October 13, 2025. Associated Daily Field Report can be found in Appendix B. A total of 70 confirmation samples and one backfill sample were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Laboratory under chain of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix C. All final confirmatory samples collected and analyzed were below closure criteria for the site.

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Hat Mesa 31 State #002

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October 2025

5.1 Closure Denial

Exxon submitted the initial closure report to the NMOCD on June 25, 2025. The initial request was denied on September 21, 2025, with the following notations:

"The GPS coordinates provided show that the location is in a Medium Karst designated area. The OCD considers Medium/High/Critical Karst areas as an "Unstable area" pursuant to 19.15.2.7.U.(6). OCD Karst determination is based on available data, such as BLM's online mapping tool. If the release has occurred in a Medium/High/Critical Karst area then it meets the definition of unstable and it must be treated as if it occurred where depth to ground water is less than 50 feet (see Table, I of 19.15.29.12 NMAC)."

The karst map was updated in this report along with the expansion of the initial excavation to meet closure criteria for the site. Confirmatory sampling was conducted as described in paragraph 3 of Section 5.0.

6.0 Closure Request

The release area was fully delineated and remediated by October 13, 2025. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release location <50 feet to groundwater.

Based on these findings, ExxonMobil Production Company requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.200.6167 or chensley@vertexresource.com

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Release Assessment and Incident Closure
October 2025

7.0 References

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ExxonMobil Production Company
Hat Mesa 31 State #002

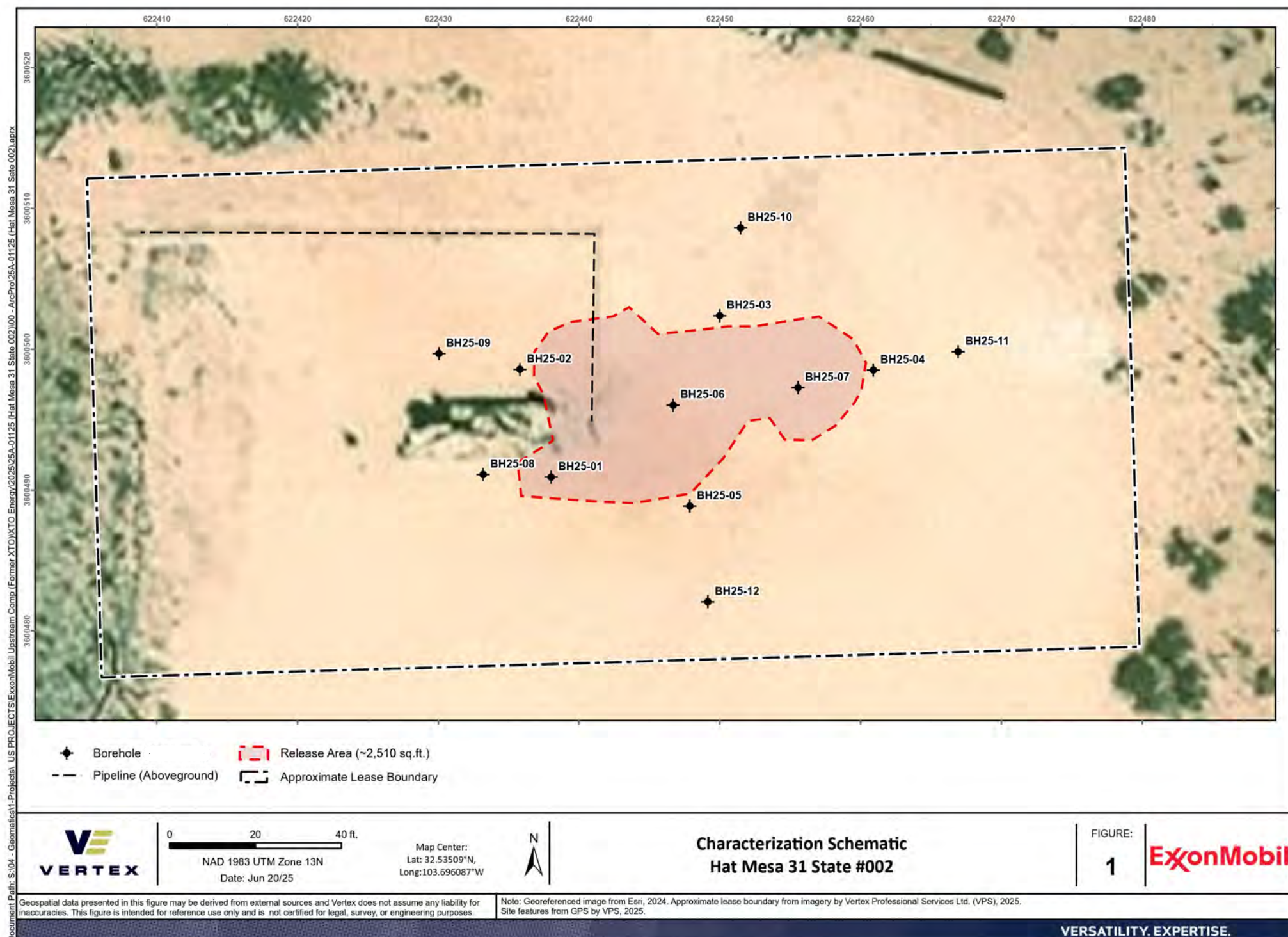
Release Assessment and Incident Closure
October 2025

8.0 Limitations

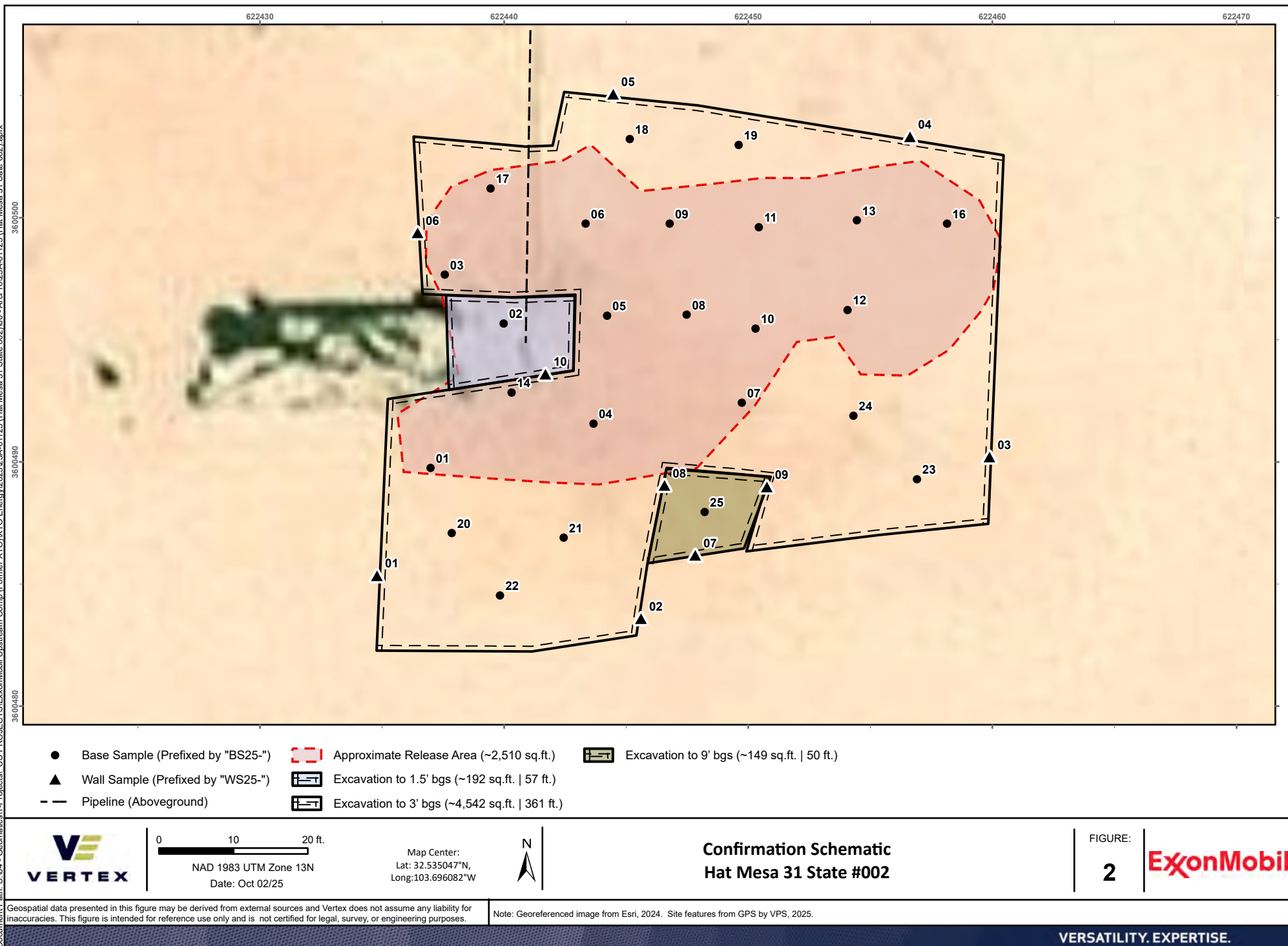
This report has been prepared for the sole benefit of ExxonMobil Production Company. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the State Land Office, without the express written consent of Vertex Resource Services Inc. (Vertex) and ExxonMobil Production Company. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES



Document Path: S:\04 - Geomatics\1-Projects\1. US PROJECTS\ExxonMobil Upstream Comp (Former XTO)\XTO Energy\2025\25A-01125 (Hat Mesa 31 State 002)\aprx



TABLES

Client Name: ExxonMobil Production Company

Site Name: Hat Mesa 31 State #002

NMOCD Tracking #: nAPP2505144988

Project #: 25A-01125

Lab Report: H251677 & H251754

Table 3. Initial Characterization Sample and Laboratory Results																		
Sample Description			Petroleum Hydrocarbons							Inorganic								
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable													
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration								
											(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
											Depth to Groundwater ≤ 50 feet bgs							
BH25-01	0	March 17, 2025	ND	ND	ND	698	286	698	984	8,660								
	1	March 17, 2025	ND	ND	ND	ND	ND	ND	ND	880								
BH25-02	0	March 17, 2025	ND	ND	ND	34	ND	ND	34	992								
	1	March 17, 2025	ND	ND	ND	ND	ND	ND	ND	368								
BH25-03	0	March 17, 2025	ND	ND	ND	77	16	ND	93	752								
	1	March 17, 2025	ND	ND	ND	ND	ND	ND	ND	288								
BH25-04	0	March 17, 2025	ND	0.18	ND	256	122	256	378	624								
	1	March 17, 2025	ND	ND	ND	ND	ND	ND	ND	208								
BH25-05	0	March 17, 2025	ND	ND	ND	313	161	313	474	1,150								
	1	March 17, 2025	ND	ND	ND	36	15	ND	51	1,300								
BH25-06	0	March 17, 2025	ND	6.34	373	19,500	4,150	19,873	23,987	22,800								
	1	March 17, 2025	ND	ND	ND	213	50	213	263	512								
BH25-07	0	March 17, 2025	ND	4.35	323	20,100	4,780	20,423	25,203	7,200								
	1	March 17, 2025	ND	ND	ND	ND	ND	ND	ND	528								
BH25-08	0	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	208								
	1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	208								
BH25-09	0	March 25, 2025	ND	ND	ND	33	36	33	69	176								
	1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	336								
BH25-10	0	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	128								
	1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	272								
BH25-11	0	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	112								
	1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	64								
BH25-12	0	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	160								
	1	March 25, 2025	ND	ND	ND	ND	ND	ND	ND	160								

"ND" Not Detected at the Reporting Limit

Bold and Gray shaded indicates exceedance outside of NM OCD Closure Criteria

Client Name: ExxonMobil Production Company

Site Name: Hat Mesa 31 State # 002

NMOCD Tracking #: nAPP2505144988

Project #: 25A-01125

Lab Reports: H253540, H256156 and H256428

Table 4. Confirmatory Sample and Laboratory Results

Sample Description			Petroleum Hydrocarbons						Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable				
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater <50 feet bgs									
BS25-01	2	June 13, 2025	ND	ND	ND	ND	ND	ND	816
	3	September 29, 2025	ND	ND	ND	ND	ND	ND	512
BS25-02	1	June 13, 2025	ND	ND	ND	ND	ND	ND	848
	1.5	September 29, 2025	ND	ND	ND	ND	ND	ND	608
	1.6	October 13, 2025	ND	ND	ND	ND	ND	ND	400
BS25-03	2	June 13, 2025	ND	ND	ND	43	ND	43	648
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	592
BS25-04	1	June 13, 2025	ND	ND	ND	90	ND	90	1,540
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	624
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	400
BS25-05	2	June 13, 2025	ND	ND	ND	ND	ND	ND	736
	3	September 30, 2025	ND	ND	ND	60	ND	60	736
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	448
BS25-06	1	June 13, 2025	ND	ND	ND	40	23	63	1,470
	3	September 30, 2025	ND	ND	ND	13	ND	13	672
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	432
BS25-07	1	June 13, 2025	ND	ND	ND	ND	ND	ND	688
	3	September 30, 2025	ND	ND	ND	71	11	82	768
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	224
BS25-08	1	June 13, 2025	ND	ND	ND	ND	ND	ND	528
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	592
BS25-09	1	June 13, 2025	ND	ND	ND	ND	ND	ND	496
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	688
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	368
BS25-10	1	June 13, 2025	ND	ND	ND	ND	ND	ND	480
	3	September 30, 2025	ND	ND	ND	109	24	133	720
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	288
BS25-11	1	June 13, 2025	ND	ND	ND	ND	ND	ND	1,060
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	736
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	288
BS25-12	1	June 13, 2025	ND	ND	ND	20	ND	20	768
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	488
BS25-13	1	June 13, 2025	ND	ND	ND	14	ND	ND	800
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	528

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Table 4. Confirmatory Sample and Laboratory Results

Sample Description			Petroleum Hydrocarbons						Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable				
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater <50 feet bgs									
BS25-14	2	June 13, 2025	ND	ND	ND	ND	ND	ND	960
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	432
BS25-15	1	June 13, 2025	ND	ND	ND	43	ND	43	672
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	688
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	256
BS25-16	1	June 13, 2025	ND	ND	ND	52	ND	52	656
	3	September 30, 2025	ND	ND	ND	ND	ND	ND	576
BS25-17	2	June 13, 2025	ND	ND	ND	ND	ND	ND	800
	3	September 30, 2025	ND	ND	ND	41	ND	41	608
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	336
BS25-18	3	September 30, 2025	ND	ND	ND	ND	ND	ND	608
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	368
BS25-19	3	September 30, 2025	ND	ND	ND	46	ND	46	160
BS25-20	3	September 30, 2025	ND	ND	ND	ND	ND	ND	544
BS25-21	3	September 30, 2025	ND	ND	ND	ND	ND	ND	608
	3.1	October 13, 2025	ND	ND	ND	ND	ND	ND	368
BS25-22	3	September 30, 2025	ND	ND	ND	ND	ND	ND	432
BS25-23	3	September 30, 2025	ND	ND	ND	ND	ND	ND	464
BS25-24	3	September 30, 2025	ND	ND	ND	ND	ND	ND	544
BS25-25	9	September 30, 2025	ND	ND	ND	61	ND	61	192
WS25-01	0-2	June 13, 2025	ND	ND	ND	43	ND	43	1,380
	0-3	September 29, 2025	ND	ND	ND	ND	ND	ND	512
WS25-02	0-1	June 13, 2025	ND	ND	ND	ND	ND	ND	976
	0-3	September 29, 2025	ND	ND	ND	ND	ND	ND	576
WS25-03	0-2	June 13, 2025	ND	ND	ND	28	ND	28	1,230
	0-3	September 29, 2025	ND	ND	ND	ND	ND	ND	512
WS25-04	0-1	June 13, 2025	ND	ND	ND	16	ND	16	1,100
	0-3	September 29, 2025	ND	ND	ND	ND	ND	ND	464
WS25-05	0-2	June 13, 2025	ND	ND	ND	10	ND	10	1,040
	0-3	September 29, 2025	ND	ND	ND	ND	ND	ND	592
WS25-06	0-3	September 29, 2025	ND	ND	ND	ND	ND	ND	592
WS25-07	0-9	September 29, 2025	ND	ND	ND	ND	ND	ND	288
WS25-08	0-9	September 29, 2025	ND	ND	ND	ND	ND	ND	624
	0-9	October 13, 2025	ND	ND	ND	ND	ND	ND	416

Client Name: ExxonMobil Production Company

Site Name: Hat Mesa 31 State # 002

NMOCD Tracking #: nAPP2505144988

Project #: 25A-01125

Lab Reports: H253540, H256156 and H256428

Table 4. Confirmatory Sample and Laboratory Results									
Sample Description			Petroleum Hydrocarbons						Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable				
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
Depth to Groundwater <50 feet bgs									
WS25-09	0-9	September 29, 2025	ND	ND	ND	ND	ND	ND	544
WS25-10	0-1.5	September 29, 2025	ND	ND	ND	ND	ND	ND	544
BACKFILL	0	June 13, 2025	ND	ND	ND	ND	ND	ND	16

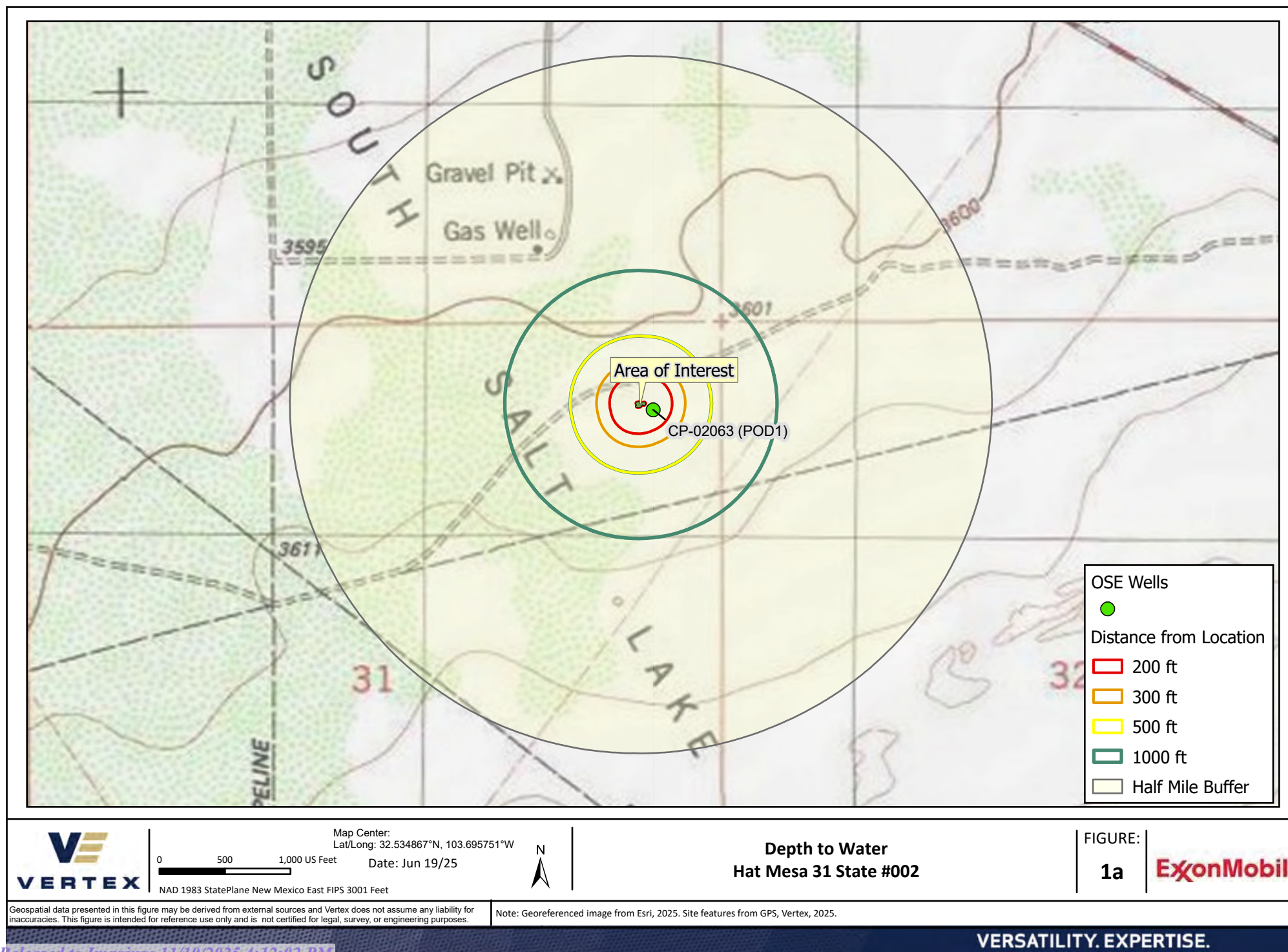
"ND" Not Detected at the Reporting Limit

"- " indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

APPENDIX A: Closure Criteria Research Documentation

Closure Criteria Determination				
Site Name: Hat Mesa 31 State #002				
Release Coordinates: 32.53495, -103.69568		X: 622483.82	Y: 3600483.25	
Site Specific Conditions		Value	Unit	Reference
1	Depth to Groundwater (nearest reference)	100-500 ft		1
	Distance between release and nearest DTGW reference	1 - 100 ft		
	Date of nearest DTGW reference measurement	June 9, 2025		
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5mi <		2
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	1 - 5 mi		3
4	Within 300 feet from an occupied residence, school, hospital, institution or church	1 - 5 mi		4
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	5mi <		5
	ii) Within 1000 feet of any fresh water well or spring	5mi <		5
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)	6
7	Within 300 feet of a wetland	1 - 5 mi		7
8	Within the area overlying a subsurface mine	No	(Y/N)	8
	Distance between release and nearest registered mine	5mi <		
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low	9
	Distance between release and nearest unstable area	5mi <		
10	Within a 100-year Floodplain	>500	year	10
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	5mi <		
11	Soil Type	fine sandy loam		11
12	Ecological Classification	Shallow Sandy		12
13	Geology	Qep		13
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'	





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). CP-2063		
	WELL OWNER NAME(S) Exxon Mobil				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 106 W Green St.				CITY Carlsbad	STATE NM	
					ZIP 88220		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 32	SECONDS 5.85	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE 103	41	44.71	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE NE Sec. 31 T20S R33E. Hat Mesa							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.	
	DRILLING STARTED 06/09/2025	DRILLING ENDED 06/09/2025	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED	
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐	
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	0 105		±6.25	Soil Boring	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A			

FOR OSE INTERNAL USE

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

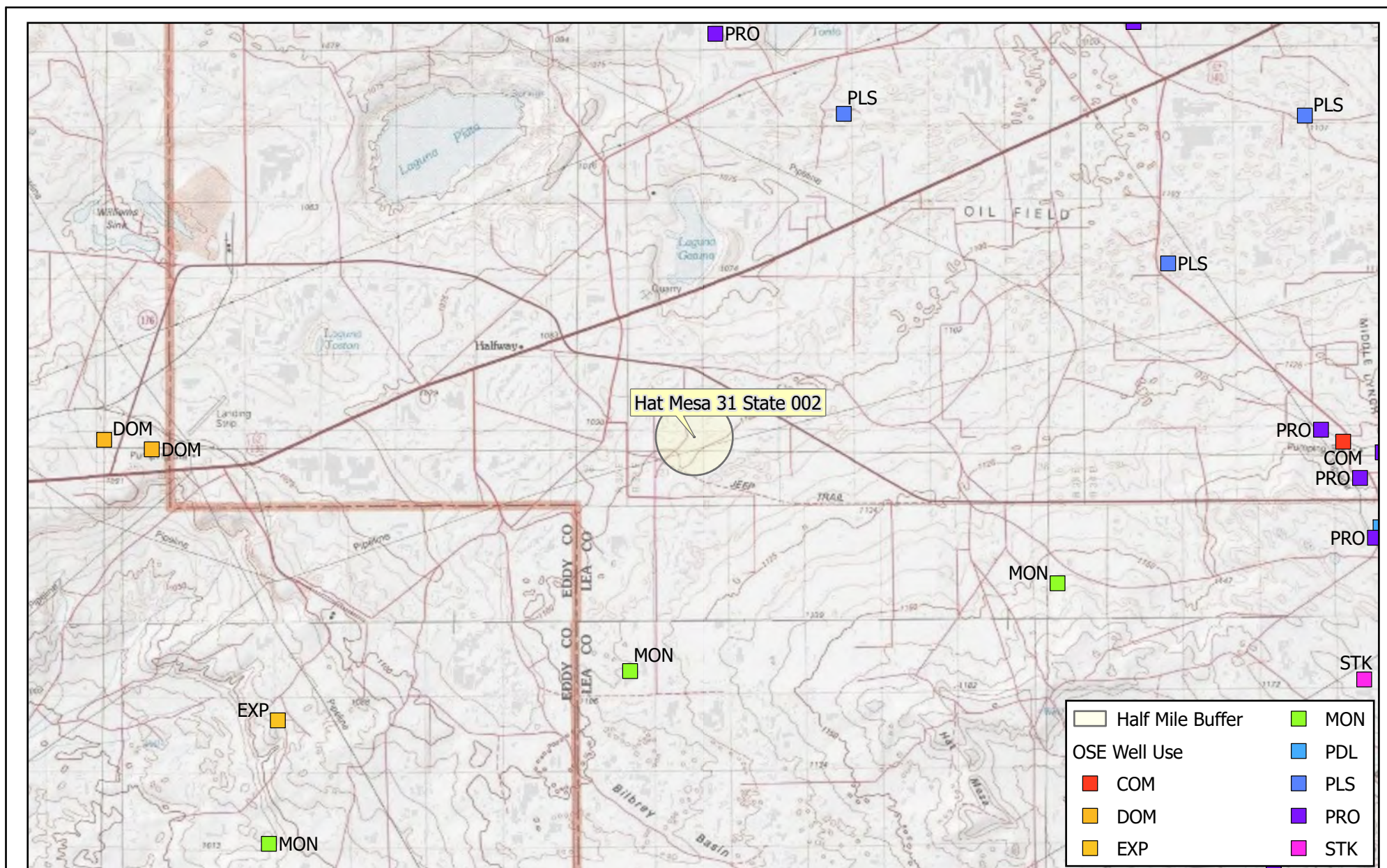
FILE NO. CP-2063	POD NO. 1	TRN NO. 785271
LOCATION 20S-33E-31 4 22	WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Caliche, semi-consolidated, tan/white	Y ✓ N	
	6	19	13	Sand, fine-grained, with caliche, tan and white	Y ✓ N	
	19	39	10	Sand, fine-grained, clay, tannish brown	Y ✓ N	
	39	69	30	Clay, with fine-grained sand semi-consolidated, Brown	Y ✓ N	
	69	105	36	Clay, Stiff, High plastic, Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Cameron Pruitt					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 Jackie D. Atkins Jackie Atkins (Jun 20, 2025 07:48 MDT)		06/20/2025			
		SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE

FOR OSE INTERNAL USE

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

FILE NO. CP- 2063	POD NO. 1	TRN NO. 785 271
LOCATION 205.33E.31 422	WELL TAG ID NO. NA	PAGE 2 OF 2



Map Center:
Lat/Long: 32.533221°N, 103.69402°W
Date: Mar 14/25
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



Wellhead Protection Hat Mesa 31 State #002

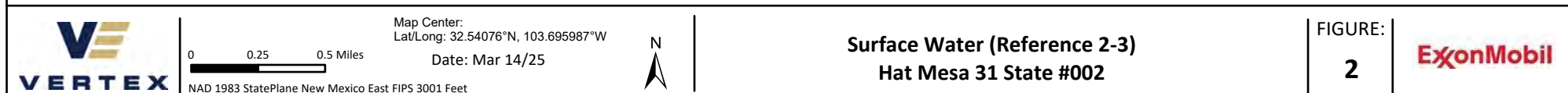
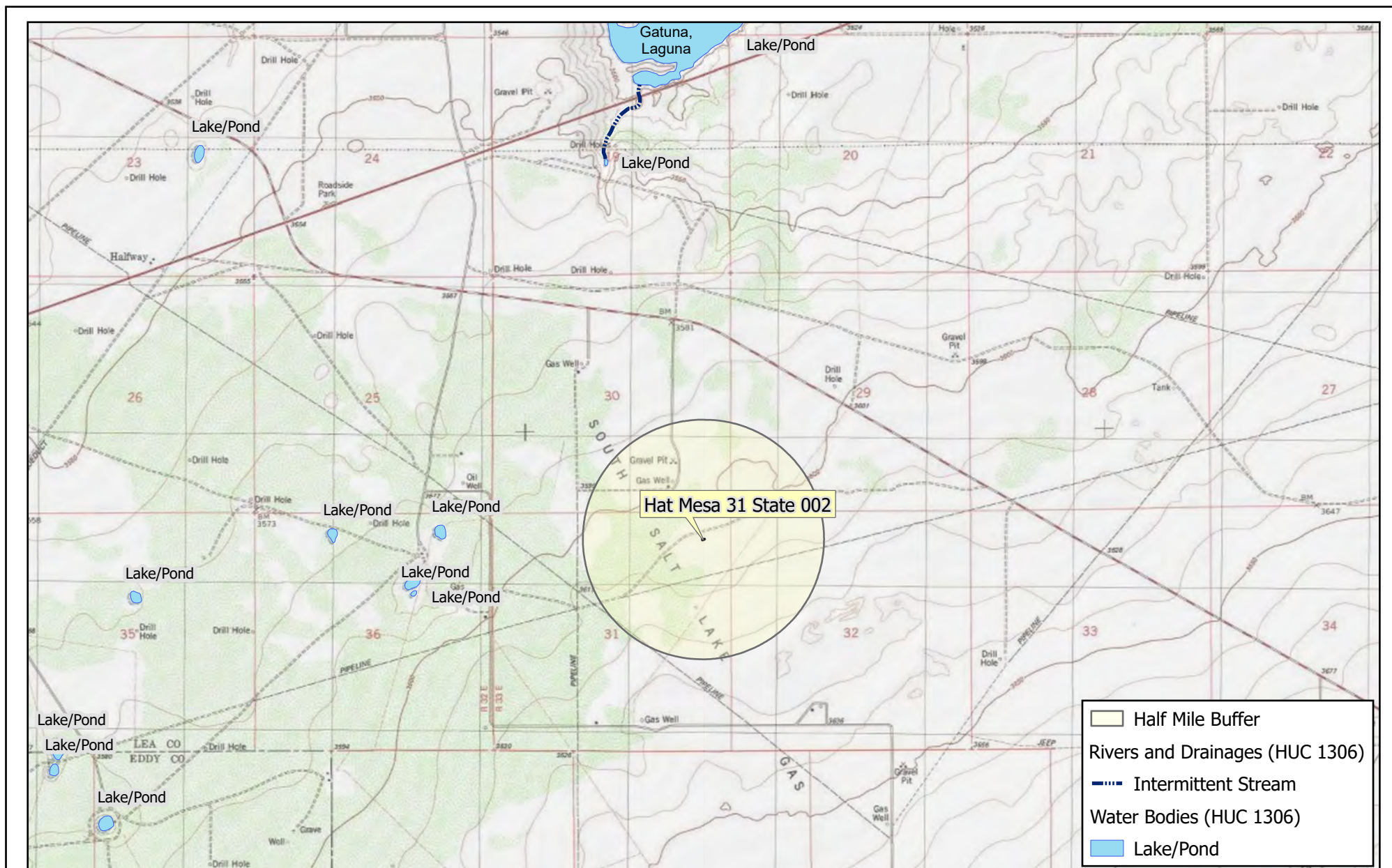
FIGURE:

1b**ExxonMobil**

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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



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0 800 1,600 US Feet

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.535409°N, 103.695606°W

Date: Mar 14/25



Nearby Structures (Reference 5)
Hat Mesa 31 State #002

FIGURE:

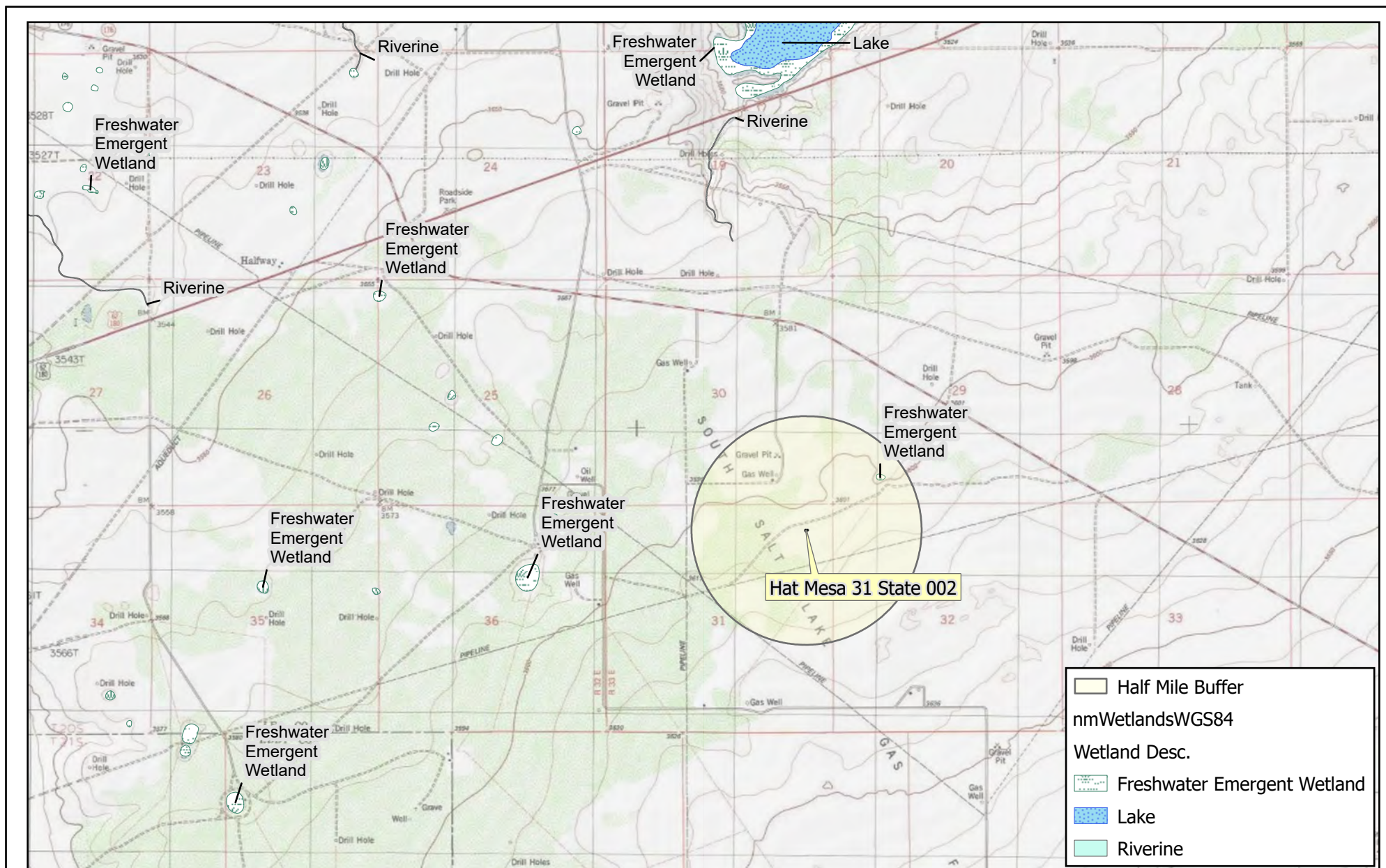
4



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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.



0 0.25 0.5 Miles

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.540497°N, 103.703796°W

Date: Mar 14/25



Wetlands Hat Mesa 31 State #002

FIGURE:

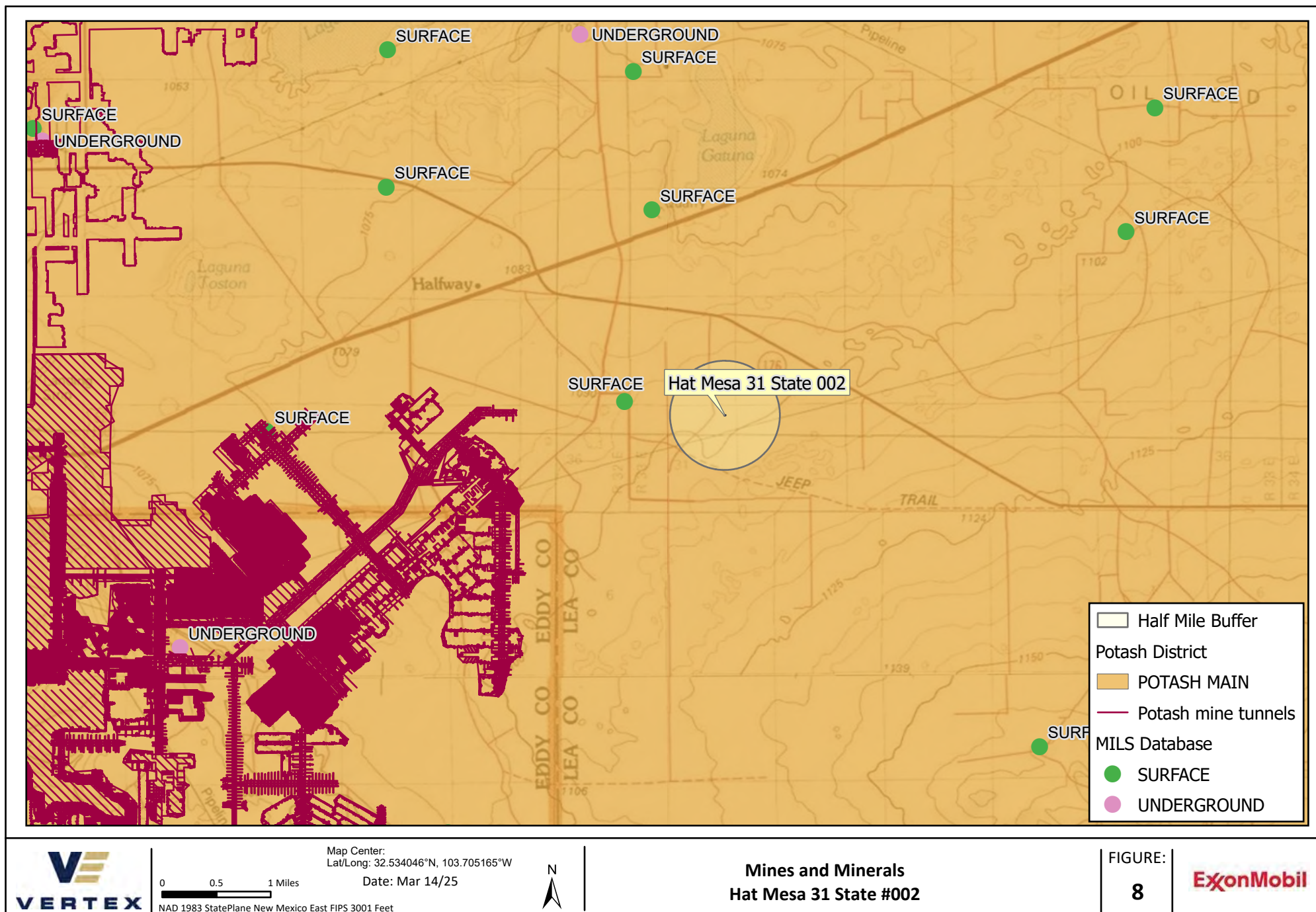
7

ExxonMobil

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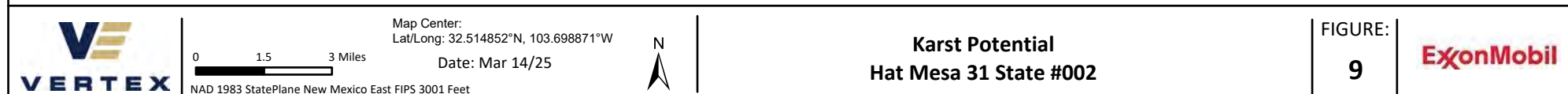
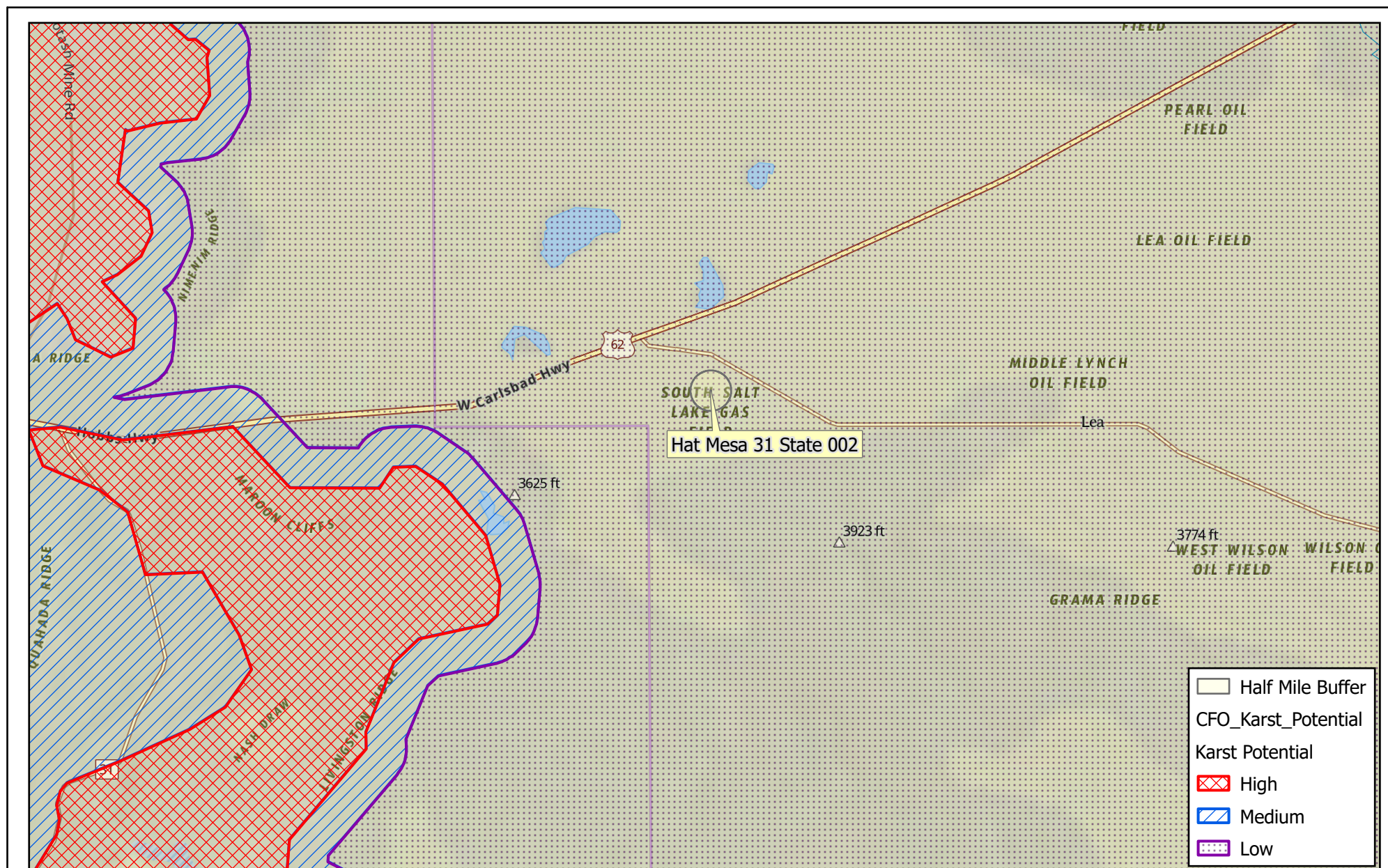
VERSATILITY. EXPERTISE.



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Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

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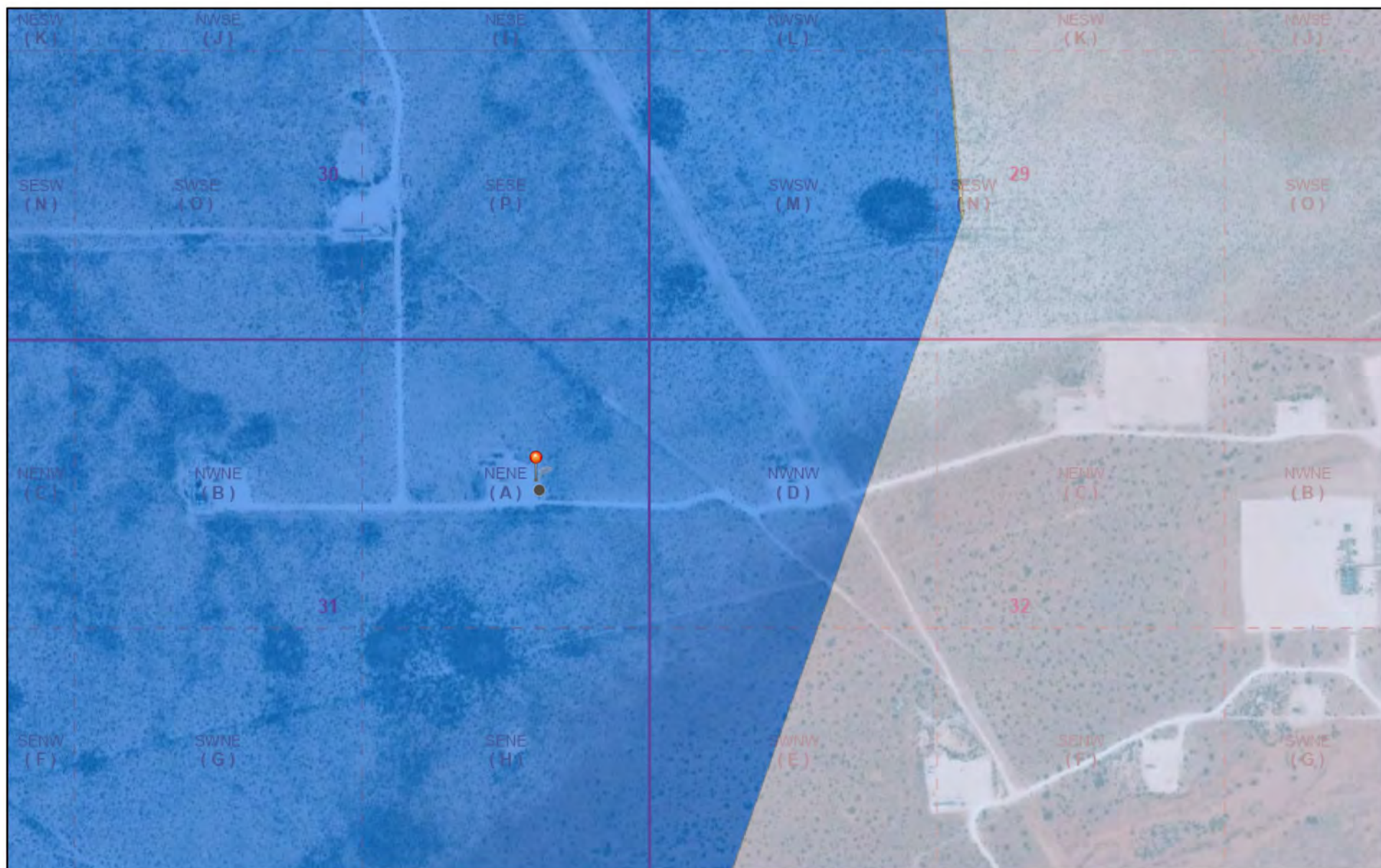


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Note: Georeferenced image from Esri, 2025. Site features from GPS. Vertex, 2025.

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Hat Mesa 31 State #002 (32.53495,-103.69568) Karst Potential Figure 9



10/7/2025, 8:59:26 AM



Override 1

Karst Occurrence Potential

Medium

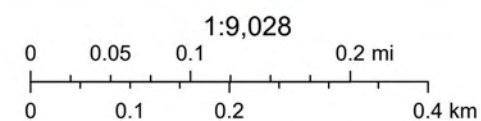
Low



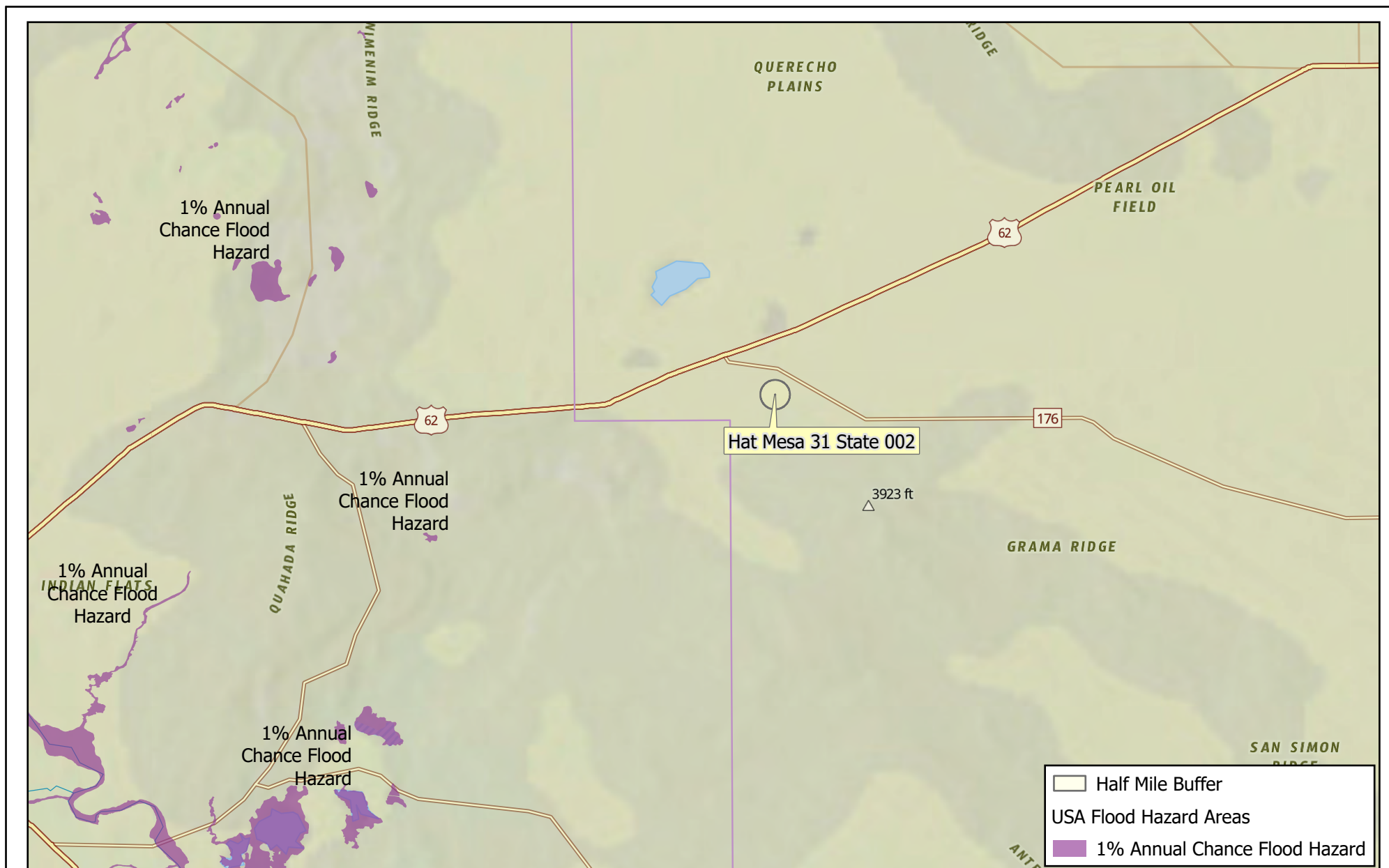
PLSS Second Division



PLSS First Division



BLM, OCD, New Mexico Tech, OCD, Maxar, BLM



	Map Center: Lat/Long: 32.509574°N, 103.738193°W Date: Mar 14/25 0 2 4 Miles NAD 1983 StatePlane New Mexico East FIPS 3001 Feet	Flood Hazard Hat Mesa 31 State #002	FIGURE: 10
--	--	--	------------------------------

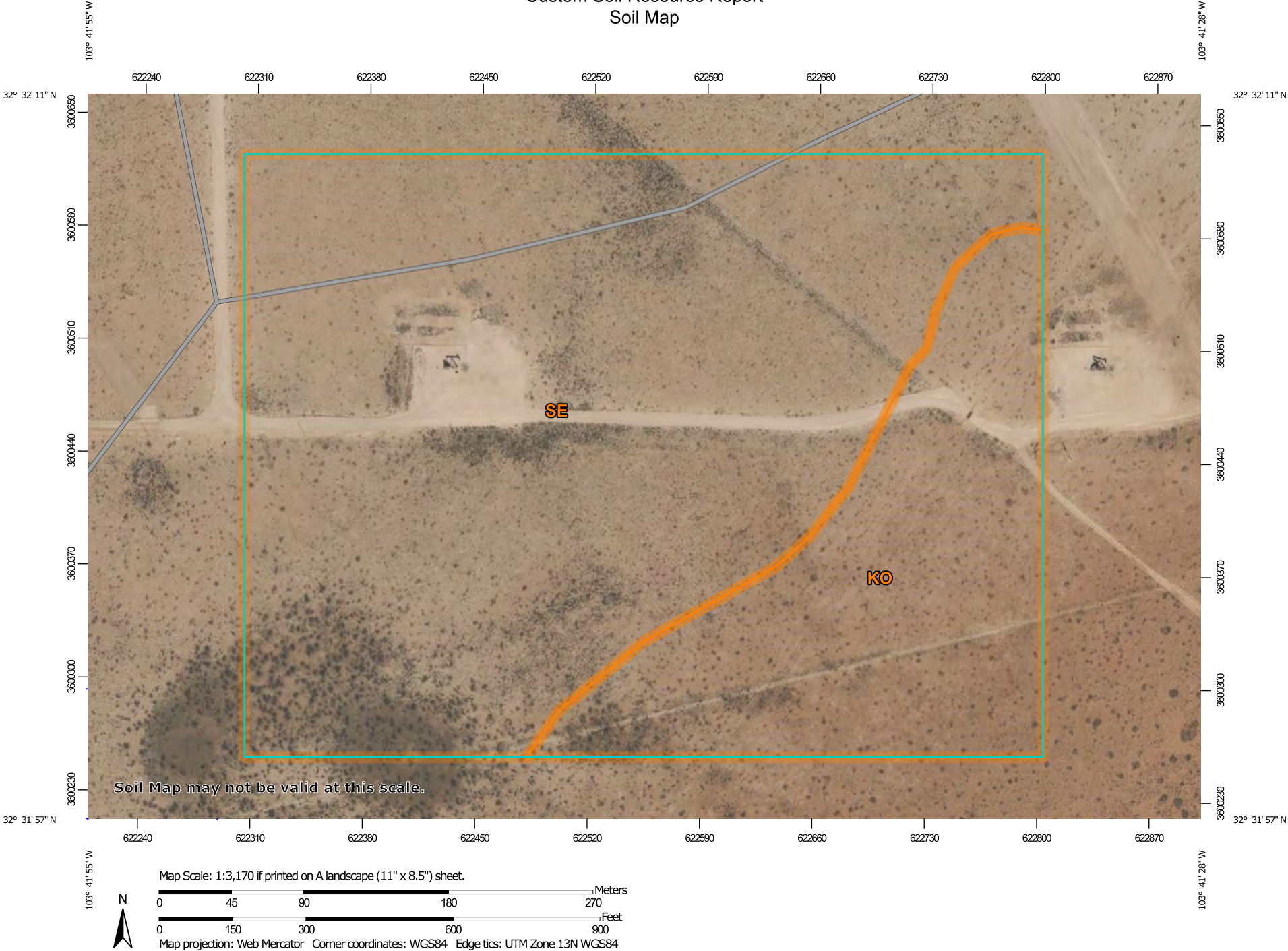
Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

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

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

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

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

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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

Custom Soil Resource Report

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	12.4	27.0%
SE	Simona fine sandy loam, 0 to 3 percent slopes	33.7	73.0%
Totals for Area of Interest		46.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

Custom Soil Resource Report

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

Lea County, New Mexico

KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes**Map Unit Setting**

National map unit symbol: 2tw43
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, dry, and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough, Dry**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

Custom Soil Resource Report

Minor Components**Eunice**

Percent of map unit: 10 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R077DY049TX - Very Shallow 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
Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

SE—Simona fine sandy loam, 0 to 3 percent slopes**Map Unit Setting**

National map unit symbol: dmr2
Elevation: 3,000 to 4,200 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 58 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona**Setting**

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

Custom Soil Resource Report

Typical profile

A - 0 to 8 inches: fine sandy loam
Bk - 8 to 16 inches: gravelly fine sandy loam
Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 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 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 6s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Minor Components**Kimbrough**

Percent of map unit: 8 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Lea

Percent of map unit: 7 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No



Ecological site R070BD002NM Shallow Sandy

Accessed: 04/08/2025

General information

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

Figure 1. Mapped extent

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

Associated sites

R070BD004NM	Sandy Sandy sites often occur in association or in a complex with Shallow Sandy Sites.
-------------	--

Similar sites

R070BD004NM	Sandy Sandy ecological sites are similar to Shallow Sandy sites in species composition and Transition pathways.
-------------	---

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on plains, alluvial fans, uplands, or fan piedmonts. The parent material consists of mixed loamy alluvium or eolian material derived from igneous and sedimentary bedrock. The petrocalcic layer is at a depth of 10 to 25 inches and undulating.

Slopes are nearly level to undulating, usually less than 9 percent. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Plain (2) Fan piedmont (3) Alluvial fan
Elevation	866–1,372 m
Slope	1–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common.

Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

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

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of the site. The vegetation of this site can take advantage of the moisture and the time it falls. Because of the soil profile, little moisture can be stored in the soil for any length of time. Moisture is readily available to the plants from the time it falls. Strong winds from the southwest blow from January through June which rapidly dries out the soil profile during a critical period for plant growth.

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

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	330 mm

Influencing water features

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

Soil features

Soils are very shallow to shallow, less than 20 inches in depth. Surface and subsurface textures are gravelly loamy sand, gravelly fine sandy loam or fine sandy loam.

An indurated caliche layer occurs at depths of 6 to 25 inches and is at an average of 15 inches from the surface. Underlying material textures are very gravelly fine sandy loam, very gravelly sandy loam, gravelly fine sandy loam. Gravels are calcium carbonate concretions, calcium carbonate content ranges from 30 to 65 percent.

The indurated caliche layer typically holds water up in the profile for short periods within the root zone of plants. These soils will blow if left unprotected by vegetation.

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

Characteristic soils are:

Simona

Jerag

Table 4. Representative soil features

Surface texture	(1) Fine sandy loam (2) Loamy fine sand (3) Gravelly fine sandy loam
Family particle size	(1) Loamy
Drainage class	Well drained to moderately well drained
Permeability class	Moderately slow to moderate

Soil depth	18–61 cm
Surface fragment cover ≤3"	5–25%
Surface fragment cover >3"	0%
Available water capacity (0–101.6cm)	2.54–5.08 cm
Calcium carbonate equivalent (0–101.6cm)	5–15%
Electrical conductivity (0–101.6cm)	0–4 mmhos/cm
Sodium adsorption ratio (0–101.6cm)	0
Soil reaction (1:1 water) (0–101.6cm)	7.4–8
Subsurface fragment volume ≤3" (Depth not specified)	5–25%
Subsurface fragment volume >3" (Depth not specified)	0%

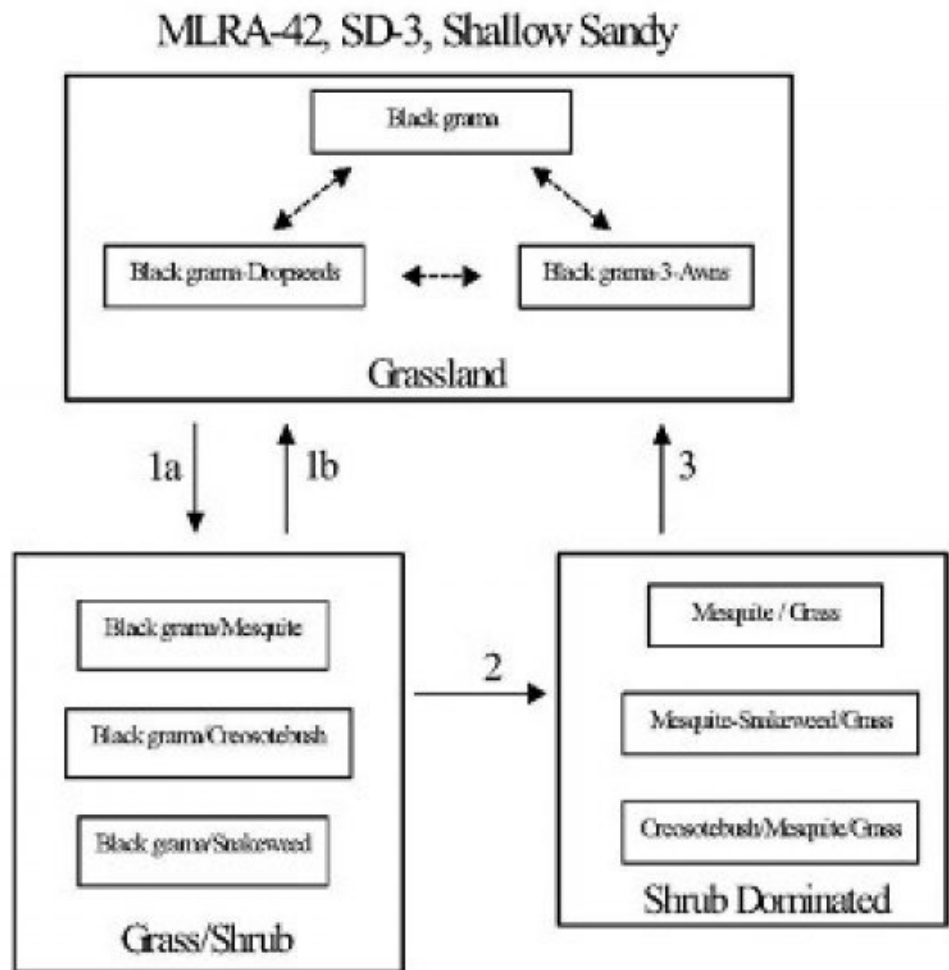
Ecological dynamics

Overview

The Shallow Sandy site occurs on upland plains, and tops of low ridges and mesas, associated with Sandy, Loamy Sand, and Shallow sites. Coarse to moderately coarse soil surface textures, shallow depth (<20 inches) to an indurated caliche layer (petrocalcic horizon), and an overwhelming dominance by black grama help to distinguish this site. The historic plant community of the Shallow Sandy site is a black grama dominated grassland sparsely dotted with shrubs. Shrubs, especially mesquite and creosotebush can increase or colonize due to the dispersal of shrub seeds by livestock or wildlife. This increase in mesquite and colonization of creosotebush may be enhanced by proximity to areas with existing high shrub densities. Fire suppression, and the loss of grass cover due to overgrazing or drought may facilitate the increase and encroachment of shrubs. Persistent loss of grass cover, competition for resources by shrubs, and periods of climate with increased winter precipitation and dry summers, may initiate the transition to a shrub-dominated state.

State and transition model

Plant Communities and Transitional Pathways (diagram)



1a. Seed dispersal, drought, overgrazing, fire suppression.

1b. Prescribed fire, brush control, prescribed grazing.

2. Persistent loss of grass cover, resource competition, increased winter precipitation.

3. Brush control, range seeding, prescribed grazing.

State 1

Historic Climax Plant Community

Community 1.1

Historic Climax Plant Community

Grassland: This site responds well to management and is resistant to state change, due to the shallow depth to petrocalcic horizon and sandy surface textures. The sandy surface textures allow rapid water infiltration and the petrocalcic horizon helps to keep water perched and available to shallow rooted grasses. Black grama is the dominant species in the historic plant community, averaging 50 to 60 percent of the total production for this site. Bush muhly, blue grama, and dropseeds are present as sub-dominants. Typically, yucca, javalinabush, range ratany, prickly pear, and mesquite are sparsely dotted across the landscape. Leatherweed croton, cutleaf

happlopappus, wooly groundsel, and threadleaf groundsel are common forbs. Continuous heavy grazing or extended periods of drought will cause a loss of grass cover characterized by a decrease in black grama, bush muhly, blue and sideoats grama, plains bristlegrass, and Arizona cottontop. Dropseeds and or threeawns may increase and become sub-dominant to black grama. Continued loss of grass cover in conjunction with dispersal of shrub seeds and fire suppression is believed to cause the transition to a state with increased amounts of shrubs (Grass/Shrub state). Diagnosis: Black grama is the dominant grass species. Grass cover uniformly distributed. Shrubs are a minor component averaging only two to five percent canopy cover. Litter cover is high (40-50 percent of area), and litter movement is limited to smaller size class litter and short distances (<. 5m). Other grasses that could appear on this site would include: six-weeks grama, fluffgrass, false-buffalograss, hairy grama, little bluestem, bristle panicum, cane bluestem, Indian ricegrass, tridens spp., and red lovegrass. Other woody plants include: pricklypear, cholla, fourwing saltbush, catclaw mimosa, winterfat, American tarbush and mesquite. Other forbs include: globemallow, verbena, desert holly, senna, plains blackfoot, trailing fleabane, fiddleneck, deerstongue, wooly Indianwheat, and locoweed.

Table 5. Annual production by plant type

Plant Type	Low (Kg/Hectare)	Representative Value (Kg/Hectare)	High (Kg/Hectare)
Grass/Grasslike	531	731	930
Forb	87	120	152
Shrub/Vine	54	74	94
Total	672	925	1176

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	30-35%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	40-50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	15-25%

Figure 5. Plant community growth curve (percent production by month). NM2802, R042XC002NM-Shallow Sandy-HCPC. SD-3 Shallow Sandy - Warm season plant community.

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

State 2
Grass/Shrub

Community 2.1
Grass/Shrub

Grass/Shrub: This state is characterized by the notable presence of shrubs, especially mesquite, broom snakeweed, and/or creosotebush, however grasses remain as the dominant species. Black grama is the dominant

grass species. Threeawns and or dropseeds are sub-dominant. The susceptibility of the Shallow Sandy site to shrub encroachment may be higher when located adjacent to other sites with high densities of mesquite or creosotebush. Retrogression within this site is characterized by decreases in grass cover and increasing densities of shrubs. Diagnosis: Black grama remains as the dominant grass species. Grass cover varies in response to the amount of shrub increase, ranging from uniform to patchy. Shrubs are found at increased densities relative to the grassland state, especially mesquite, creosotebush, or broom snakeweed. Transition to Grass/Shrub (1a) Historically fire may have kept mesquite and other shrubs in check by completely killing some species and disrupting seed production cycles and suppressing the establishment of shrub seedlings in others. Fire suppression combined with seed dispersal by livestock and wildlife is believed to be the factors responsible for the establishment and increase in shrubs.1, 3 Loss of grass cover due to overgrazing, prolonged periods of drought, or their combination, reduces fire fuel loads and increases the susceptibility of the site to shrub establishment. Key indicators of approach to transition: Increase in the relative abundance of dropseeds and threeawns Presence of shrub seedlings Loss of organic matter—evidenced by an increase in physical soil crusts 8 Transition back to Grassland (1b) Brush control is necessary to initiate the transition back to the grassland state. If adequate fuel loads remain, possibly the reintroduction of fire as a management tool will assist in the transition back, however, mixed results have been observed concerning the effects of fire on black grama grasslands.6 Prescribed grazing will help ensure adequate rest following brush control and will assist in the establishment and maintenance of grass cover capable of sustaining fire.

State 3
Shrub Dominated

Community 3.1
Shrub Dominated

Shrub-Dominated: Across the range of soil types included in the Shallow Sandy site, mesquite is typically the dominant shrub, but it does occur as a co-dominant or sub-dominant species with creosotebush or broom snakeweed. Mesquite tends to dominate when the Shallow Sandy site occurs as part of a complex or in association with Sandy or Loamy Sand sites. Creosotebush tends to dominate on Shallow Sandy sites that occur as part of, or adjacent to Shallow Sites. Broom snakeweed increases in response to heavy grazing, but tends to cycle in and out depending on timing of rainfall. However, once the site is dominated by shrubs and snakeweed becomes well established, it tends to remain as a major component in the shrub dominated state. Diagnosis: Mesquite, creosotebush, or snakeweed cover is high, exceeding that of grasses. Grass cover is patchy with large connected bare areas present. Black grama, threeawns, or dropseeds may be the dominant grass. Evidence of accelerated wind erosion in the form of pedestalling of plants, and soil deposition around shrub bases may be common. Transition to Shrub-Dominated (2) Persistent loss of grass cover and the resulting increased competition between shrubs and remaining grasses for dwindling resources (especially soil moisture) may drive this transition.5 Additionally periods of increased winter precipitation may facilitate periodic episodes of shrub expansion and establishment. 4 Key indicators of approach to transition: Increase in size and frequency of bare patches. Loss of grass cover in shrub interspaces. Increased signs of erosion, evidenced by pedestalling of plants, and soil and litter deposition on leeward side of plants. 7 Transition back to Grassland (3) Brush control is necessary to reduce competition from shrubs and reestablish grasses. Range seeding may be necessary if insufficient grasses remain, The benefits, and costs, will vary depending upon the degree of site degradation, and adequate precipitation following seeding.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Kg/Hectare)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			463–555	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	463–555	–
2	Warm Season			46–93	
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	46–93	–
3	Warm Season			46–93	

	blue grama	BOGR2	<i>Bouteloua gracilis</i>	46–93	–
4	Warm Season			28–46	
	sideoats grama	BOCU	<i>Bouteloua curtipendula</i>	28–46	–
5	Warm Season			46–93	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	46–93	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	46–93	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	46–93	–
6	Warm Season			19–46	
	threeawn	ARIST	<i>Aristida</i>	19–46	–
7	Warm Season			46–93	
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	46–93	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	46–93	–
8	Warm Season			46–93	
	mat sandbur	CELO3	<i>Cenchrus longispinus</i>	46–93	–
	hooded windmill grass	CHCU2	<i>Chloris cucullata</i>	46–93	–
9	Other Perennial Grasses			28–46	
	Grass, perennial	2GP	<i>Grass, perennial</i>	28–46	–
Shrub/Vine					
10	Shrub			9–28	
	javelina bush	COER5	<i>Condalia ericoides</i>	9–28	–
11	Shrub			9–28	
	yucca	YUCCA	<i>Yucca</i>	9–28	–
12	Shrub			9–28	
	jointfir	EPHED	<i>Ephedra</i>	9–28	–
	littleleaf ratany	KRER	<i>Krameria erecta</i>	9–28	–
13	Shrub			9–28	
	featherplume	DAFO	<i>Dalea formosa</i>	9–28	–
14	Shrub			9–28	
	broom snakeweed	GUSA2	<i>Gutierrezia sarothrae</i>	9–28	–
15	Other Shrubs			28–46	
	Shrub (>.5m)	2SHRUB	<i>Shrub (>.5m)</i>	28–46	–
Forb					
16	Forb			19–46	
	leatherweed	CRPOP	<i>Croton pottsii</i> var. <i>pottsii</i>	19–46	–
	Goodding's tansyaster	MAPIG2	<i>Machaeranthera pinnatifida</i> ssp. <i>gooddingii</i> var. <i>gooddingii</i>	19–46	–
17	Forb			19–46	
	woolly groundsel	PACA15	<i>Packera cana</i>	19–46	–
	threadleaf ragwort	SEFLF	<i>Senecio flaccidus</i> var. <i>flaccidus</i>	19–46	–
18	Forb			9–28	
	whitest evening primrose	OEAL	<i>Oenothera albicaulis</i>	9–28	–
19	Other Forbs			9–28	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	9–28	–

Animal community

This site provides habitats which support a resident animal community that is characterized by pronghorn antelope, swift fox, black-tailed jackrabbit, spotted ground squirrel, Ord's kangaroo rat, northern grasshopper mouse, coyote, horned lark, meadowlark, lark bunting, scaled quail, morning dove, side-blotched lizard, round-tailed horned lizard, marbled whiptail, prairie rattlesnake and ornate box turtle.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations
Soil Series Hydrologic Group
Jarag D
Simona D

Recreational uses

This site offers recreation for hiking, horseback riding, nature observation and photography, and quail and dove hunting. During years of abundant spring moisture, this site displays a riot of color from wildflowers during May and June. A few summer and fall flowers also occur.

Wood products

The natural potential plant community of this site affords little or no wood products. Where the site has been invaded by mesquite or cholla cactus the roots and stems of these plants provide attractive material for a variety of curiosities, such as lamps and small furniture.

Other products

This site is suitable for grazing by all kinds and classes of livestock during all seasons of the year. Because of the sandy textures and shallow profile, this site will respond rapidly to management. As this site deteriorates, plants such as black grama, bush muhly, blue and sideoats grama, plains bristlegrass and Arizona cottontop, will decrease and be replaced by plants such as threeawns, mesquite, creosote bush, and broom snakeweed. This also causes a decrease in ground cover, leaving the soil to blow. This site responds best to a system of management that rotates the season of use.

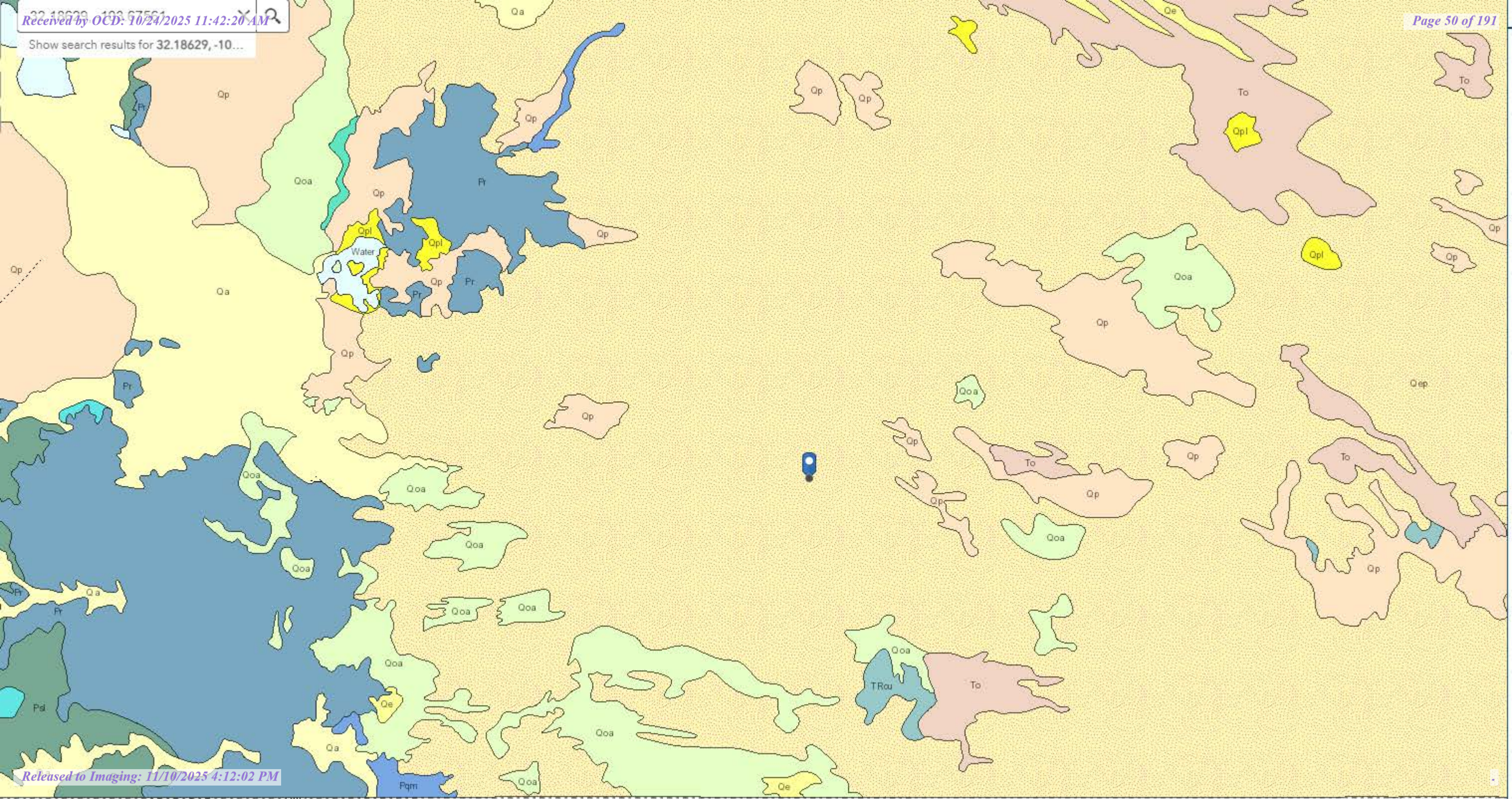
Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month
Similarity Index Ac/AUM
100 - 76 2.5 – 3.5
75 – 51 3.2 – 4.6
50 – 26 4.5 – 7.5
25 – 0 7.6 +

Inventory data references

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

Show search results for 32.18629, -10...



APPENDIX B: Daily Field Reports

APPENDIX C: Laboratory Data Reports and Chain of Custody Forms



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

March 27, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: HAT MESA 31 STATE 002 - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 03/21/25 13:10.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 03/21/2025
Reported: 03/27/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 03/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH25 - 01 @ 0' (H251677-01)

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	03/25/2025	ND	1.92	96.1	2.00	17.8	
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5	
Total BTEX	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	03/24/2025	ND	416	104	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	698	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	286	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 68.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.8 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	03/21/2025	Sampling Date:	03/18/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 01 @ 1' (H251677-02)

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	03/25/2025	ND	1.92	96.1	2.00	17.8	
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5	
Total BTEX	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	03/24/2025	ND	416	104	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 03/21/2025
Reported: 03/27/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 03/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH25 - 02 @ 0' (H251677-03)

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	03/25/2025	ND	1.92	96.1	2.00	17.8		
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTEX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	03/24/2025	ND	416	104	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	33.6	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 64.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 58.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	03/21/2025	Sampling Date:	03/18/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 02 @ 1' (H251677-04)

BTX 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	03/25/2025	ND	1.92	96.1	2.00	17.8	
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5	
Total BTX	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/24/2025	ND	416	104	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 03/21/2025
Reported: 03/27/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 03/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH25 - 03 @ 0' (H251677-05)

BTX 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	03/25/2025	ND	1.92	96.1	2.00	17.8		
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTEX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/24/2025	ND	416	104	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	03/25/2025	ND	204	102	200	7.17	
DRO >C10-C28*	76.9	10.0	03/25/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	16.2	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 03/21/2025
 Reported: 03/27/2025
 Project Name: HAT MESA 31 STATE 002 - SPILL
 Project Number: 25A - 01125
 Project Location: EXXON MOBIL

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH25 - 03 @ 1' (H251677-06)

BTX 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	03/25/2025	ND	1.92	96.1	2.00	17.8	
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5	
Total BTX	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/24/2025	ND	416	104	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 75.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 03/21/2025
Reported: 03/27/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 03/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH25 - 04 @ 0' (H251677-07)

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	03/25/2025	ND	1.92	96.1	2.00	17.8	GC-NC1	
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	0.180	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTEX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	03/24/2025	ND	416	104	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	256	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	122	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 65.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 62.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	03/21/2025	Sampling Date:	03/18/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 04 @ 1' (H251677-08)

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	03/25/2025	ND	1.92	96.1	2.00	17.8		
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTEx	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/24/2025	ND	416	104	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 77.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 03/21/2025
Reported: 03/27/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 03/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH25 - 05 @ 0' (H251677-09)

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	03/25/2025	ND	1.92	96.1	2.00	17.8		
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTEX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	03/24/2025	ND	416	104	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	313	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	161	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 64.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.4 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 03/21/2025
Reported: 03/27/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 03/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH25 - 05 @ 1' (H251677-10)

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	03/25/2025	ND	1.92	96.1	2.00	17.8		
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTEX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	03/24/2025	ND	416	104	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	36.3	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	14.6	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 74.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/21/2025	Sampling Date:	03/18/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 06 @ 0' (H251677-11)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.065	0.050	03/25/2025	ND	1.92	96.1	2.00	17.8	GC-NC1
Toluene*	0.461	0.050	03/25/2025	ND	2.10	105	2.00	19.6	GC-NC1
Ethylbenzene*	0.920	0.050	03/25/2025	ND	2.33	117	2.00	17.0	GC-NC1
Total Xylenes*	4.90	0.150	03/25/2025	ND	7.00	117	6.00	17.5	GC-NC1
Total BTX	6.34	0.300	03/25/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 309 % 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	22800	16.0	03/24/2025	ND	448	112	400	3.64	QM-07

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	373	100	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	19500	100	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	4150	100	03/24/2025	ND					

Surrogate: 1-Chlorooctane 150 % 44.4-145

Surrogate: 1-Chlorooctadecane 542 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	03/21/2025	Sampling Date:	03/18/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 06 @ 1' (H251677-12)

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	03/25/2025	ND	1.92	96.1	2.00	17.8		
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6		
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0		
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5		
Total BTEX	<0.300	0.300	03/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	512	16.0	03/24/2025	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	03/24/2025	ND	204	102	200	7.17	
DRO >C10-C28*	213	10.0	03/24/2025	ND	203	102	200	11.6	
EXT DRO >C28-C36	50.4	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/21/2025	Sampling Date:	03/18/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 07 @ 0' (H251677-13)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.059	0.050	03/25/2025	ND	1.92	96.1	2.00	17.8	GC-NC1
Toluene*	0.427	0.050	03/25/2025	ND	2.10	105	2.00	19.6	GC-NC1
Ethylbenzene*	0.657	0.050	03/25/2025	ND	2.33	117	2.00	17.0	GC-NC1
Total Xylenes*	3.20	0.150	03/25/2025	ND	7.00	117	6.00	17.5	GC-NC1
Total BTEX	4.35	0.300	03/25/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 240 % 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	7200	16.0	03/24/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	323	100	03/25/2025	ND	212	106	200	3.79	QM-07
DRO >C10-C28*	20100	100	03/25/2025	ND	195	97.4	200	4.08	QM-07
EXT DRO >C28-C36	4780	100	03/25/2025	ND					

Surrogate: 1-Chlorooctane 748 % 44.4-145

Surrogate: 1-Chlorooctadecane 524 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	03/21/2025	Sampling Date:	03/18/2025
Reported:	03/27/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 07 @ 1' (H251677-14)

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	03/25/2025	ND	1.92	96.1	2.00	17.8	
Toluene*	<0.050	0.050	03/25/2025	ND	2.10	105	2.00	19.6	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	2.33	117	2.00	17.0	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	7.00	117	6.00	17.5	
Total BTEx	<0.300	0.300	03/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	528	16.0	03/24/2025	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	03/24/2025	ND	212	106	200	3.79	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.4	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Company Name: Vertex Resource Project Manager: Chad Hersley Address: 3101 Boyd dr City: Carlsbad State: NM Zip: 88220 Phone #: 575-200-6167 Fax #: Project #: 25A-01125 Project Owner: Project Name: Hat mesa 31 state 002-Spill Project Location: Sampler Name: Riley Arnold				BILL TO P.O. #: Company: ExxonMobil Attn: Colton Brown Address: 3104 E Green St City: Carlsbad State: NM Zip: 88220 Phone #: 575-988-2390 Fax #:				ANALYSIS REQUEST															
								BTEX (4021) TPH: 8015D (GRO, DRO, MRO) Chloride															
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING													
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME													
H257677				X 1		X		X		3.18.25 9:30		X X X											
1		BH25-01 @ 0'																					
2		BH25-01 @ 1'																					
3		BH25-02 @ 0'																					
4		BH25-02 @ 1'																					
5		BH25-03 @ 0'																					
6		BH25-03 @ 1'																					
7		BH25-04 @ 0'																					
8		BH25-04 @ 1'																					
9		BH25-05 @ 0'																					
10		BH25-05 @ 1'																					

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Relinquished By: <i>[Signature]</i> Relinquished By: _____ Delivered By: (Circle One) _____ Sampler - UPS - Bus - Other: _____		Date: <i>3-21-25</i> Time: <i>1310</i> Date: _____ Time: _____		Received By: <i>[Signature]</i> Received By: _____ Observed Temp. °C <i>4.4</i> Corrected Temp. °C <i>4.7</i>		Sample Condition Cool Intact <i>[initials]</i> ☒ Yes ☐ No ☐ Yes ☐ No		CHECKED BY: (Initials) <i>[initials]</i>		Verbal Result: ☐ Yes ☐ No Add'l Phone #: _____ All Results are emailed. Please provide Email address: <i>Rarnold2vertexResource.com CHensley2vertexResource</i> REMARKS: <i>GFLCM: 48605000 Incident #NAPP2505144988</i> <i>Remediation</i> Turnaround Time: <i>Standard</i> ☒ <i>Rush</i> ☐ Thermometer ID #140 Correction Factor <i>-0.3</i> <i>+0.3</i>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ☐ Yes ☐ No ☐ Yes ☐ No Corrected Temp. °C	
---	--	---	--	--	--	--	--	--	--	---	--	---	--



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Vertex Resource</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Chad Hensley</u>				P.O. #:				<u>BTEX (8021)</u> <u>TPH: 8015D (Gro, Dro, M20)</u> <u>chloride</u>											
Address: <u>3101 Boyd Dr.</u>				Company: <u>Exxon Mobil</u>															
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn: <u>Colton Brown</u>															
Phone #: <u>575-200-6167</u> Fax #:				Address: <u>3104 E Green St</u>															
Project #: <u>25A-01125</u> Project Owner:				City: <u>Carlsbad</u>															
Project Name: <u>Hat mesa 31 state 002 - Spill</u>				State: <u>NM</u> Zip: <u>88220</u>															
Project Location:				Phone #: <u>575-988-2390</u>															
Sampler Name: <u>Riley Arnold</u>				Fax #:															
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING					
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:			
						ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME					
		<u>H251677</u>		<u>8H25-06 @ 0'</u>		<u>X</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>3.18.25</u>		<u>11:50</u>			
		<u>12</u>		<u>8H25-06 @ 1'</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>12:07</u>		<u>1</u>			
		<u>13</u>		<u>8H25-07 @ 0'</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>12:28</u>		<u>1</u>			
		<u>14</u>		<u>8H25-07 @ 1'</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>12:46</u>		<u>1</u>			

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Relinquished By: <u>[Signature]</u>		Date: <u>8-21-25</u>		Received By: <u>[Signature]</u>		Verbal Result: ☐ Yes ☐ No Add'l Phone #:	
Relinquished By:		Time: <u>1310</u>		Received By:		All Results are emailed. Please provide Email address:	
Date:		Time:		Date:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C <u>4.4</u>		Sample Condition		Turnaround Time: <u>Standard</u> ☒ <u>Rush</u> ☐	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>4.7</u>		Cool Intact ☒ Yes ☐ No		Bacteria (only) Sample Condition	
				Checked By: <u>[Signature]</u> (Initials)		Cool Intact ☐ Yes ☐ No	
						Observed Temp. °C	
						Corrected Temp. °C	
						Thermometer ID #140	
						Correction Factor <u>-0.6°C +0.3°C</u>	

FORM-006 R 3.3 06/03/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

March 31, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: HAT MESA 31 STATE 002 - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 03/25/25 15:52.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 08 @ 0' (H251754-01)

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	03/30/2025	ND	2.10	105	2.00	3.23		
Toluene*	<0.050	0.050	03/30/2025	ND	2.18	109	2.00	1.37		
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	2.38	119	2.00	2.75		
Total Xylenes*	<0.150	0.150	03/30/2025	ND	7.22	120	6.00	3.20		
Total BTEX	<0.300	0.300	03/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	208	16.0	03/27/2025	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	03/27/2025	ND	204	102	200	1.27	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	194	97.2	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 08 @ 1' (H251754-02)

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	03/30/2025	ND	2.10	105	2.00	3.23		
Toluene*	<0.050	0.050	03/30/2025	ND	2.18	109	2.00	1.37		
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	2.38	119	2.00	2.75		
Total Xylenes*	<0.150	0.150	03/30/2025	ND	7.22	120	6.00	3.20		
Total BTEX	<0.300	0.300	03/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	208	16.0	03/27/2025	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	03/27/2025	ND	204	102	200	1.27	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	194	97.2	200	14.0	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 09 @ 0' (H251754-03)

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	03/30/2025	ND	2.10	105	2.00	3.23	
Toluene*	<0.050	0.050	03/30/2025	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	2.38	119	2.00	2.75	
Total Xylenes*	<0.150	0.150	03/30/2025	ND	7.22	120	6.00	3.20	
Total BTEX	<0.300	0.300	03/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	176	16.0	03/27/2025	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	03/26/2025	ND	217	108	200	0.0807	
DRO >C10-C28*	33.1	10.0	03/26/2025	ND	208	104	200	3.44	
EXT DRO >C28-C36	36.2	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 09 @ 1' (H251754-04)

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	03/30/2025	ND	2.10	105	2.00	3.23		
Toluene*	<0.050	0.050	03/30/2025	ND	2.18	109	2.00	1.37		
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	2.38	119	2.00	2.75		
Total Xylenes*	<0.150	0.150	03/30/2025	ND	7.22	120	6.00	3.20		
Total BTEX	<0.300	0.300	03/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	336	16.0	03/27/2025	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	03/26/2025	ND	217	108	200	0.0807	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	208	104	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 10 @ 0' (H251754-05)

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	03/30/2025	ND	2.10	105	2.00	3.23		
Toluene*	<0.050	0.050	03/30/2025	ND	2.18	109	2.00	1.37		
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	2.38	119	2.00	2.75		
Total Xylenes*	<0.150	0.150	03/30/2025	ND	7.22	120	6.00	3.20		
Total BTEX	<0.300	0.300	03/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	128	16.0	03/27/2025	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	03/26/2025	ND	217	108	200	0.0807	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	208	104	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 10 @ 1' (H251754-06)

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	03/30/2025	ND	2.10	105	2.00	3.23		
Toluene*	<0.050	0.050	03/30/2025	ND	2.18	109	2.00	1.37		
Ethylbenzene*	<0.050	0.050	03/30/2025	ND	2.38	119	2.00	2.75		
Total Xylenes*	<0.150	0.150	03/30/2025	ND	7.22	120	6.00	3.20		
Total BTEX	<0.300	0.300	03/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	272	16.0	03/27/2025	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	03/26/2025	ND	217	108	200	0.0807	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	208	104	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 11 @ 0' (H251754-07)

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	03/29/2025	ND	1.99	99.5	2.00	1.96		
Toluene*	<0.050	0.050	03/29/2025	ND	2.01	100	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.19	110	2.00	6.68	QM-07	
Total Xylenes*	<0.150	0.150	03/29/2025	ND	6.64	111	6.00	6.89		
Total BTEX	<0.300	0.300	03/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	112	16.0	03/27/2025	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	03/26/2025	ND	217	108	200	0.0807	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	208	104	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 11 @ 1' (H251754-08)

BTX 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	03/29/2025	ND	1.99	99.5	2.00	1.96		
Toluene*	<0.050	0.050	03/29/2025	ND	2.01	100	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.19	110	2.00	6.68		
Total Xylenes*	<0.150	0.150	03/29/2025	ND	6.64	111	6.00	6.89		
Total BTX	<0.300	0.300	03/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	64.0	16.0	03/27/2025	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	03/26/2025	ND	217	108	200	0.0807	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	208	104	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 12 @ 0' (H251754-09)

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	03/29/2025	ND	1.99	99.5	2.00	1.96		
Toluene*	<0.050	0.050	03/29/2025	ND	2.01	100	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.19	110	2.00	6.68		
Total Xylenes*	<0.150	0.150	03/29/2025	ND	6.64	111	6.00	6.89		
Total BTEX	<0.300	0.300	03/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	160	16.0	03/27/2025	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	03/26/2025	ND	217	108	200	0.0807	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	208	104	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 70.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	03/25/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002 - SPILL	Sampling Condition:	** (See Notes)
Project Number:	25A - 01125	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH25 - 12 @ 1' (H251754-10)

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	03/29/2025	ND	1.99	99.5	2.00	1.96		
Toluene*	<0.050	0.050	03/29/2025	ND	2.01	100	2.00	4.97		
Ethylbenzene*	<0.050	0.050	03/29/2025	ND	2.19	110	2.00	6.68		
Total Xylenes*	<0.150	0.150	03/29/2025	ND	6.64	111	6.00	6.89		
Total BTEx	<0.300	0.300	03/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	160	16.0	03/27/2025	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	03/26/2025	ND	217	108	200	0.0807	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	208	104	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.0 % 40.6-153

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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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A handwritten signature in black ink, appearing to read "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: Verstep Resource				BILL TO				ANALYSIS REQUEST														
Project Manager: Chad Hensley				P.O. #:				BTEX (8021) TPH: 8015 D/GRODRA Chloride														
Address: 3101 Boyd Dr				Company: Exxon Mobil																		
City: Carlsbad State: NM Zip: 88220				Attn: Colton Brown																		
Phone #: 575-200-6167 Fax #:				Address: 3104 E Green St																		
Project #: 25A-01125 Project Owner:				City: Carlsbad																		
Project Name: Hat Mesa 81 State 002 - Spill				State: NM Zip: 88220																		
Project Location:				Phone #: 575-988-2380																		
Sampler Name: Riley Arnold				Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(GIRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME									
H251754																						
1	BH25-08 @ 0				X				X			3.25.25	12:00	X	X	X						
2	BH25-08 @ 1												12:18									
3	BH25-09 @ 0												12:28									
4	BH25-09 @ 1												12:38									
5	BH25-10 @ 0												12:50									
6	BH25-10 @ 1												1:11									
7	BH25-11 @ 0												1:24									
8	BH25-11 @ 1												1:38									
9	BH25-12 @ 0												1:50									
10	BH25-12 @ 1												2:07									

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Relinquished By:	Date: 3.25.25 Time: 1:50	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: Chensley@verstepresource.com
Time:			REMARKS: GFLM: 48605000 Incident #: NaPP2505144988
Delivered By: (Circle One)	Observed Temp. °C: 69.2	Sample Condition: ☒ Cool ☐ Intact	Turnaround Time: Standard ☒ Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 70.2	☐ Yes ☒ No	Bacteria (only) Sample Condition: ☐ Cool ☐ Intact
			☐ Yes ☐ No
			Observed Temp. °C:
			Corrected Temp. °C:

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

June 19, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: HAT MESA 31 STATE 002 - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 06/13/25 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-01 @ 2' (H253540-01)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	816	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-02 @ 1' (H253540-02)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	848	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-03 @ 2' (H253540-03)

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	06/16/2025	ND	1.97	98.5	2.00	3.11	
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19	
Total BTEX	<0.300	0.300	06/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	640	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	42.7	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-04 @ 1' (H253540-04)

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	06/16/2025	ND	1.97	98.5	2.00	3.11	
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19	
Total BTEX	<0.300	0.300	06/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	1540	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	90.3	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-05 @ 2' (H253540-05)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEx	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	736	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-06 @ 1' (H253540-06)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	1470	16.0	06/16/2025	ND	464	116	400	0.00	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	39.6	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	22.6	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-07 @ 1' (H253540-07)

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	06/16/2025	ND	1.97	98.5	2.00	3.11	
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19	
Total BTEX	<0.300	0.300	06/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	688	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 121 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/13/2025
 Reported: 06/19/2025
 Project Name: HAT MESA 31 STATE 002 - SPILL
 Project Number: 25A - 01125
 Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-08 @ 1' (H253540-08)

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	06/16/2025	ND	1.97	98.5	2.00	3.11	
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19	
Total BTEX	<0.300	0.300	06/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	528	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 123 % 44.4-145

Surrogate: 1-Chlorooctadecane 122 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/13/2025
 Reported: 06/19/2025
 Project Name: HAT MESA 31 STATE 002 - SPILL
 Project Number: 25A - 01125
 Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-09 @ 1' (H253540-09)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 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	496	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 117 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-10 @ 1' (H253540-10)

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	06/16/2025	ND	1.97	98.5	2.00	3.11	
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19	
Total BTEx	<0.300	0.300	06/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	480	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/13/2025
 Reported: 06/19/2025
 Project Name: HAT MESA 31 STATE 002 - SPILL
 Project Number: 25A - 01125
 Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-11 @ 1' (H253540-11)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEx	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	1060	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/13/2025
 Reported: 06/19/2025
 Project Name: HAT MESA 31 STATE 002 - SPILL
 Project Number: 25A - 01125
 Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-12 @ 1' (H253540-12)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEx	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	768	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	20.8	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-13 @ 1' (H253540-13)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	800	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	14.2	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/13/2025
 Reported: 06/19/2025
 Project Name: HAT MESA 31 STATE 002 - SPILL
 Project Number: 25A - 01125
 Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-14 @ 2' (H253540-14)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEx	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	960	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 121 % 44.4-145

Surrogate: 1-Chlorooctadecane 127 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-15 @ 1' (H253540-15)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	672	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	43.4	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-16 @ 1' (H253540-16)

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	06/16/2025	ND	1.97	98.5	2.00	3.11	
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19	
Total BTEX	<0.300	0.300	06/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	656	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	51.7	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BS 25-17 @ 2' (H253540-17)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	800	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: WS 25-01 @ 0-2' (H253540-18)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	1380	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	42.6	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: WS 25-02 @ 0-1' (H253540-19)

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	06/16/2025	ND	1.97	98.5	2.00	3.11	
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27	
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19	
Total BTEx	<0.300	0.300	06/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	976	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: WS 25-03 @ 0-2' (H253540-20)

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	06/16/2025	ND	1.97	98.5	2.00	3.11		
Toluene*	<0.050	0.050	06/16/2025	ND	2.02	101	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	1.95	97.7	2.00	3.27		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	5.80	96.6	6.00	3.19		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	1230	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	201	101	200	0.204	
DRO >C10-C28*	27.5	10.0	06/16/2025	ND	186	93.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 124 % 44.4-145

Surrogate: 1-Chlorooctadecane 124 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: WS 25-04 @ 0-1' (H253540-21)

BTX 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	06/16/2025	ND	2.11	105	2.00	0.764		
Toluene*	<0.050	0.050	06/16/2025	ND	2.11	105	2.00	0.181		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	2.10	105	2.00	0.578		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	6.29	105	6.00	0.987		
Total BTX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	1100	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	205	103	200	13.8	
DRO >C10-C28*	15.5	10.0	06/16/2025	ND	193	96.6	200	5.23	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.9 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 06/13/2025
 Reported: 06/19/2025
 Project Name: HAT MESA 31 STATE 002 - SPILL
 Project Number: 25A - 01125
 Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: WS 25-05 @ 0-2' (H253540-22)

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	06/16/2025	ND	2.11	105	2.00	0.764		
Toluene*	<0.050	0.050	06/16/2025	ND	2.11	105	2.00	0.181		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	2.10	105	2.00	0.578		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	6.29	105	6.00	0.987		
Total BTEX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	1040	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	205	103	200	13.8	
DRO >C10-C28*	10.1	10.0	06/16/2025	ND	193	96.6	200	5.23	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received: 06/13/2025
Reported: 06/19/2025
Project Name: HAT MESA 31 STATE 002 - SPILL
Project Number: 25A - 01125
Project Location: EXXON MOBIL

Sampling Date: 06/13/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: BACKFILL (H253540-23)

BTX 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	06/16/2025	ND	2.11	105	2.00	0.764		
Toluene*	<0.050	0.050	06/16/2025	ND	2.11	105	2.00	0.181		
Ethylbenzene*	<0.050	0.050	06/16/2025	ND	2.10	105	2.00	0.578		
Total Xylenes*	<0.150	0.150	06/16/2025	ND	6.29	105	6.00	0.987		
Total BTX	<0.300	0.300	06/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	06/16/2025	ND	464	116	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	06/16/2025	ND	205	103	200	13.8	
DRO >C10-C28*	<10.0	10.0	06/16/2025	ND	193	96.6	200	5.23	
EXT DRO >C28-C36	<10.0	10.0	06/16/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.6 % 40.6-153

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

1 of 3

Company Name: Vertex Resource Group				BILL TO				ANALYSIS REQUEST															
Project Manager: Chad Hensley				P.O. #:				Chlordies TPH BTEX															
Address: 3101 Boyd Drive				Company: ExxonMobil																			
City: Carlsbad State: NM Zip: 88203				Attn: Ashley McAfee																			
Phone #: 575-200-6167 Fax #: 25A-01125				Address: 106 W Greene st																			
Project #: 25A-01125 Project Owner: Ashley McAfee				City: Carlsbad																			
Project Name: Hat Mesa 31 State 002				State: NM Zip: 88220																			
Project Location:				Phone #: 575-988-0812																			
Sampler Name: Riley Arnold				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME									
H25320																							
1	BS25-01 @ 2'	c	1		x					x			06.13.25	11:20	x	x	x						
2	BS25-02 @ 1'	c	1		x					x			06.13.25	11:22	x	x	x						
3	BS25-03 @ 2'	c	1		x					x			06.13.25	11:26	x	x	x						
4	BS25-04 @ 1'	c	1		x					x			06.13.25	11:32	x	x	x						
5	BS25-05 @ 2'	c	1		x					x			06.13.25	11:40	x	x	x						
6	BS25-06 @ 1'	c	1		x					x			06.13.25	11:49	x	x	x						
7	BS25-07 @ 1'	c	1		x					x			06.13.25	11:58	x	x	x						
8	BS25-08 @ 1'	c	1		x					x			06.13.25	12:09	x	x	x						
9	BS25-09 @ 1'	c	1		x					x			06.13.25	12:15	x	x	x						
10	BS25-10 @ 1'	c	1		x					x			06.13.25	12:22	x	x	x						

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Relinquished By: Riley Arnold	Date: 6.13.25	Received By: S. Rodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By: [Signature]	Time: 1440	Received By: [Signature]	All Results are emailed. Please provide Email address: chenley@vertex.com, Rarnold@vertex.com
Date: 6.13.25	Time: 1440	Received By: [Signature]	REMARKS: Rarnold@vertexresource.com
Time: 1440	Time: 1440	Received By: [Signature]	chenley@vertexresource.com
Delivered By: (Circle One) UPS - Bus - Other:	Observed Temp. °C 6.0	Sample Condition Cool Intact	Turnaround Time: Standard ☒ Rush ☐
FORM-006 R 3.8 02/12/25	Corrected Temp. °C 6.3	Checked By: [Signature]	Bacteria (only) Sample Condition Cool Intact
			Thermometer ID #140
			Correction Factor +0.3°C
			Observed Temp. °C
			Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Vertex Resource Group				BILL TO				ANALYSIS REQUEST																			
Project Manager: Chad Hensley				P.O. #:				Chlorides TPH BTEX																			
Address: 3101 Boyd Drive				Company: ExxonMobil																							
City: Carlsbad State: NM Zip: 88203				Attn: Ashley McAfee																							
Phone #: 575-200-6167 Fax #:				Address: 106 W Greene st																							
Project #: 25A-01125 Project Owner: Ashley McAfee				City: Carlsbad																							
Project Name: Hat Mesa 31 State 002				State: NM Zip: 88220																							
Project Location:				Phone #: 575-988-0812																							
Sampler Name: Riley Arnold				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H-263520																											
11	BS25-11 @ 1'	c	1	x						x			06.13.25	12:29	x	x	x										
12	BS25-12 @ 1'	c	1	x						x			06.13.25	12:36	x	x	x										
13	BS25-13 @ 1'	c	1	x						x			06.13.25	12:40	x	x	x										
14	BS25-14 @ 2'	c	1	x						x			06.13.25	12:45	x	x	x										
15	BS25-15 @ 1'	c	1	x						x			06.13.25	12:51	x	x	x										
16	BS25-16 @ 1'	c	1	x						x			06.13.25	12:58	x	x	x										
17	BS25-17 @ 2'	c	1	x						x			06.13.25	1:07	x	x	x										
18	WS25-01 @ 0-2'	c	1	x						x			06.13.25	1:15	x	x	x										
19	WS25-02 @ 0-1'	c	1	x						x			06.13.25	1:22	x	x	x										
20	WS25-03 @ 0-2'	c	1	x						x			06.13.25	1:30	x	x	x										

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Relinquished By: Riley Arnold	Date: 6.13.25	Received By: [Signature]	Verbal Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: 1445		All Results are emailed. Please provide Email address:	
Relinquished By: [Signature]	Date:	Received By:	chensley@vertex-cu; Rarnold@vertex-cu; Project owner	
	Time:		REMARKS:	
Delivered By: (Circle One)	Observed Temp. °C 40.0	Sample Condition Cool Intact	Turnaround Time: Standard ☒ Rush ☐	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25	Corrected Temp. °C 40.3	Yes ☐ No ☐	Thermometer ID #140	☐ Yes ☐ Yes
		Yes ☐ No ☐	Correction Factor +0.3°C	☐ No ☐ No Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: Vertex Resource Group				BILL TO				ANALYSIS REQUEST															
Project Manager: Chad Hensley				P.O. #:				Chlordies TPH BTEX															
Address: 3101 Boyd Drive				Company: ExxonMobil																			
City: Carlsbad State: NM Zip: 88203				Attn: Ashley McAfee																			
Phone #: 575-200-6167 Fax #:				Address: 106 W Greene st																			
Project #: 25A-01125 Project Owner: Ashley McAfee				City: Carlsbad																			
Project Name: Hat Mesa 31 State 002				State: NM Zip: 88220																			
Project Location:				Phone #: 575-988-0812																			
Sampler Name: Riley Arnold				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME									
H253510																							
21	WS25-04 @ 0-1'	c	1		x					x			06.13.25	1:36	x	x	x						
22	WS25-05 @ 0-2'	c	1		x					x			06.13.25	1:42	x	x	x						
23	Backfill	c	1		x					x			06.13.25	1:49	x	x	x						
															x	x	x						
															x	x	x						
															x	x	x						
															x	x	x						
															x	x	x						
															x	x	x						
															x	x	x						
															x	x	x						
															x	x	x						

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Relinquished By: Riley Arnold	Date: 6.13.25	Received By: S. Rodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By: [Signature]	Time: 1440	Received By: [Signature]	All Results are emailed. Please provide Email address:
	Date:		Remarks: <u>Ramold@vertexresource.com</u> <u>Chensley@vertexresource.com</u>
	Time:		
Delivered By: (Circle One)	Observed Temp. °C: 4.0	Sample Condition: Cool ☒ Intact ☒	Turnaround Time: Standard ☒ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 6.3	Checked By: [Signature]	Bacteria (only) Sample Condition: Cool ☐ Intact ☐
FORM-006 R 3.6 02/12/25			Thermometer ID #140
			Correction Factor +0.3°C
			Observed Temp. °C
			Corrected Temp. °C

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

October 20, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: HAT MESA 31 STATE 002H - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 10/14/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS25 - 08 @ 0-9' (H256428-01)

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	10/16/2025	ND	2.18	109	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.92	
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.13	107	2.00	3.87	
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.42	107	6.00	4.65	
Total BTEX	<0.300	0.300	10/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	191	95.3	200	2.99	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	205	102	200	0.323	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 02 @ 1.6' (H256428-02)

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	10/16/2025	ND	2.18	109	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.92		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.13	107	2.00	3.87		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.42	107	6.00	4.65		
Total BTEX	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	191	95.3	200	2.99		
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	205	102	200	0.323		
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND						

Surrogate: 1-Chlorooctane 87.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 04 @ 3.1' (H256428-03)

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	10/16/2025	ND	2.18	109	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.92		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.13	107	2.00	3.87		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.42	107	6.00	4.65		
Total BTEX	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61		
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND						

Surrogate: 1-Chlorooctane 85.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 05 @ 3.1' (H256428-04)

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	10/16/2025	ND	2.18	109	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.92		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.13	107	2.00	3.87		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.42	107	6.00	4.65		
Total BTEX	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 06 @ 3.1' (H256428-05)

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	10/16/2025	ND	2.18	109	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.92	
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.13	107	2.00	3.87	
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.42	107	6.00	4.65	
Total BTEx	<0.300	0.300	10/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 07 @ 3.1' (H256428-06)

BTX 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	10/16/2025	ND	2.18	109	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.92		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.13	107	2.00	3.87		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.42	107	6.00	4.65		
Total BTX	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 09 @ 3.1' (H256428-07)

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	10/16/2025	ND	2.18	109	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2025	ND	2.14	107	2.00	1.92		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.13	107	2.00	3.87		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.42	107	6.00	4.65		
Total BTEX	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61		
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND						

Surrogate: 1-Chlorooctane 94.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 10 @ 3.1' (H256428-08)

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	10/16/2025	ND	2.24	112	2.00	5.15		
Toluene*	<0.050	0.050	10/16/2025	ND	2.12	106	2.00	3.57		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.11	106	2.00	3.52		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.30	105	6.00	3.60		
Total BTEx	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 11 @ 3.1' (H256428-09)

BTX 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	10/16/2025	ND	2.24	112	2.00	5.15	
Toluene*	<0.050	0.050	10/16/2025	ND	2.12	106	2.00	3.57	
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.11	106	2.00	3.52	
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.30	105	6.00	3.60	
Total BTX	<0.300	0.300	10/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 15 @ 3.1' (H256428-10)

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	10/16/2025	ND	2.24	112	2.00	5.15		
Toluene*	<0.050	0.050	10/16/2025	ND	2.12	106	2.00	3.57		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.11	106	2.00	3.52		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.30	105	6.00	3.60		
Total BTEX	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.1 % 39.9-141

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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 17 @ 3.1' (H256428-11)

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	10/16/2025	ND	2.24	112	2.00	5.15		
Toluene*	<0.050	0.050	10/16/2025	ND	2.12	106	2.00	3.57		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.11	106	2.00	3.52		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.30	105	6.00	3.60		
Total BTEx	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 18 @ 3.1' (H256428-12)

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	10/16/2025	ND	2.24	112	2.00	5.15		
Toluene*	<0.050	0.050	10/16/2025	ND	2.12	106	2.00	3.57		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.11	106	2.00	3.52		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.30	105	6.00	3.60		
Total BTEX	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
CHAD HENSLEY
3101 BOYD DRIVE
CARLSBAD NM, 88220
Fax To: NA

Received:	10/14/2025	Sampling Date:	10/13/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	HAT MESA 31 STATE 002H - SPILL	Sampling Condition:	Cool & Intact
Project Number:	25A - 01125	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 21 @ 3.1' (H256428-13)

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	10/16/2025	ND	2.24	112	2.00	5.15		
Toluene*	<0.050	0.050	10/16/2025	ND	2.12	106	2.00	3.57		
Ethylbenzene*	<0.050	0.050	10/16/2025	ND	2.11	106	2.00	3.52		
Total Xylenes*	<0.150	0.150	10/16/2025	ND	6.30	105	6.00	3.60		
Total BTEx	<0.300	0.300	10/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/15/2025	ND	400	100	400	7.69		

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	10/15/2025	ND	184	92.0	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/15/2025	ND	201	100	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Vetex Resource</u>		P.O. #: <u>1081241001</u>	
Project Manager: <u>Chad Hensley</u>		Company: <u>Exxon Mobil</u>	
Address: <u>3101 Boyd drive</u>		Attn: <u>Ashley McAfee</u>	
City: <u>Carlisle</u>		Address: <u>3101 E Greene St</u>	
State: <u>NM</u> Zip: <u>88220</u>		City: <u>Carlisle</u>	
Phone #: <u>575-200-6167</u> Fax #: _____		State: <u>NM</u> Zip: <u>88220</u>	
Project #: <u>25A-01125</u> Project Owner: _____		Phone #: _____	
Project Name: <u>Hat Mesa 31 State 002H</u>		Fax #: _____	
Project Location: _____		FOR LAB USE ONLY	
Sampler Name: <u>Riley Arnold</u>		MATRIX	
		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER	
		ACID/BASE	
		ICE / COOL	
		OTHER	
		PRESERV	
		SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS
#256428	W525-08 @ 0-9'	C	1				10/13/25	9:40	X BTEX
	B525-02 @ 1.6'							9:50	X TPH
	B525-04 @ 3.1'							9:57	X chloride
	B525-05 @ 3.1'							10:08	
	B525-06 @ 3.1'							10:20	
	B525-07 @ 3.1'							10:22	
	B525-09 @ 3.1'							10:31	
	B525-10 @ 3.1'							10:40	
	B525-11 @ 3.1'							10:48	
	B525-15 @ 3.1'							11:00	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____	Date: <u>10-14-25</u>	Received By: _____	Date: <u>10-14-25</u>
Time: <u>1340</u>		Time: <u>1340</u>	
Date: _____		Date: _____	
Received By: _____		Received By: _____	

Delivered By: (Circle One)	Observed Temp. °C <u>29</u>	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>32</u>	Cool Intact ☒ Yes ☐ No	<u>AO</u>
Turnaround Time: _____	Thermometer ID # <u>113</u>	Bacteria (only) ☒ Standard ☐ Rush	
Remarks: <u>GFCM: 48605000</u>	Corrosion Factor: <u>0.5°C</u>	Cool Intact ☒ Yes ☐ No	
		Observed Temp. °C _____	
		Corrected Temp. °C _____	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vetflex Resource		BILL TO		P.O. # 1081241001		ANALYSIS REQUEST	
Project Manager: Chad Hensley				Company: Exxon Mobil			
Address: 3101 Boyd drive				Attn: Ashley McFee			
City: Carlsbad				Address: 3101 E Greene St			
Phone #: 575-200-6167		Fax #:		City: Carlsbad			
Project #: 25A-01125		Project Owner:		State: NM zip: 88220			
Project Name: Hat Mesa 31 State 002H		Phone #:					
Project Location:							
Sampler Name: Riley Arnold		Fax #:					
Date Lab Use Due:							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	chloride
				GROUNDWATER	WASTE WATER	SOIL	OIL	SLUDGE	OTHER							
11	B525-17	2	3.1			X						10:13:25	11:14	X	X	X
12	B525-18	2	3.1						X				11:27			
13	B525-21	2	3.1										11:36			

PLEASE NOTE: Accuracy and Precision: Samples must be analyzed within 30 days of receipt. Samples must be analyzed within 30 days of receipt. Samples must be analyzed within 30 days of receipt. Samples must be analyzed within 30 days of receipt.

Relinquished By: *[Signature]* **Date:** 10-14-25 **Received By:** *[Signature]* **Date:** 10-14-25

Relinquished By: *[Signature]* **Date:** 10-14-25 **Received By:** *[Signature]* **Date:** 10-14-25

Time: *[Signature]* **Received By:** *[Signature]* **Date:** 10-14-25

Verbal Result: ☐ Yes ☐ No **Add Phone #:** *[Signature]*

Remarks: *[Signature]* **Chensley@vetflexresource.com**

Turnaround Time: *[Signature]* **Standard** ☐ **Rush** ☐ **Thermometer ID #13** *[Signature]* **Corrected Temp. °C** *[Signature]*

Daily Site Visit Report



Client:	XTO Energy Inc. (US)	Inspection Date:	3/17/2025
Site Location Name:	Hat Mesa 31 State 002	Report Run Date:	3/24/2025 5:18 PM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	3/17/2025 12:45 PM
Departed Site	3/17/2025 4:30 PM

Daily Site Visit Report



Field Notes

- 15:33** BH25-01 through BH25-07 were collected
- 15:33** Each sample was field screened
- 15:37** Site map was updated with delineation points

Next Steps & Recommendations

- 1 Jar and deliver to lab
- 2 Tables and work plan

Daily Site Visit Report



Site Photos

Viewing Direction: East  BH25-01 @ 0' BH25-01 @ 1'	Viewing Direction: East  BH25-02 @ 0' BH25-02 @ 1'
Viewing Direction: South  BH25-03 @ 0' BH25-03 @ 1'	Viewing Direction: West  BH25-04 @ 0' BH25-04 @ 1'

Daily Site Visit Report



Viewing Direction: North  Descriptive Photo - 5 Viewing Direction: North Date: 3/17/2025 @ 1: BH25-05 @ 1' Created: 3/17/2025 2:40:25 PM Lat:32.636007, Long:-103.888119 BH25-05 @ 0' BH25-05 @ 1'	Viewing Direction: East  Descriptive Photo - 6 Viewing Direction: East Date: 3/17/2025 @ 1: BH25-06 @ 1' Created: 3/17/2025 2:40:31 PM Lat:32.636007, Long:-103.888119 BH25-06 @ 0' BH25-06 @ 1'
Viewing Direction: West  Descriptive Photo - 7 Viewing Direction: West Date: 3/17/2025 @ 1: BH25-07 @ 1' Created: 3/17/2025 2:40:36 PM Lat:32.636007, Long:-103.888119 BH25-07 @ 0' BH25-07 @ 1'	

Daily Site Visit Report



Client:	XTO Energy Inc. (US)	Incident ID #:	nAPP2505144988
Site Location Name:	Hat Mesa 31 State 002	API #:	
Inspection Date:	6/11/2025		

Summary of Times

Arrived at Site	6/11/2025 8:40 AM
Departed Site	6/11/2025 3:30 PM

Daily Site Visit Report



Field Notes

- 8:57 Travel to site/ safety paperwork/ tailgate safety meeting
- 8:57 Excavation area was painted and line swept
- 8:57 Hydrovac began around wellhead
- 8:59 Mechanical excavation (backhoe) began on east end of AOI
- 9:33 Map updates were made
- 14:22 BS25-08 through BS25-13 were collected and field screened

Next Steps & Recommendations

- 1 Complete excavation/ Hydrovacing
- 2 Confirmation sampling
- 3 Deliver samples to lab
- 4 Complete excavation map and report

Daily Site Visit Report



Site Photos

Viewing Direction: West  Descriptive Photo - 1 Viewing Direction: West Area: Excavation area Created: 6/11/2025 8:47:45 AM Latitude: 32.534502, Long: -103.040000	Viewing Direction: Southwest  Descriptive Photo - 2 Viewing Direction: Southwest Area: Excavation area Created: 6/11/2025 8:48:13 PM Latitude: 32.534502, Long: -103.040000
Excavation painted	Excavation area line swept
Viewing Direction: North  Descriptive Photo - 3 Viewing Direction: North Area: Excavation area Created: 6/11/2025 1:11:36 PM Latitude: 32.534502, Long: -103.040000	Viewing Direction: South  Descriptive Photo - 4 Viewing Direction: South Area: Excavation area Created: 6/11/2025 1:11:36 PM Latitude: 32.534502, Long: -103.040000
BS25-13 @ 1' BS25-12 @ 1'	BS25-11 @ 1' BS25-10 @ 1'

Daily Site Visit Report



Viewing Direction: West  Descriptive Photo - 6 Viewing Direction: West Owner: Current remediation Created: 9/11/2025 2:35:46 PM Lat:32.837146, Long:-103.888882 BS25-08 @ 1' BS25-09 @ 1'	Viewing Direction: West  Descriptive Photo - 8 Viewing Direction: West Owner: Current remediation Created: 9/11/2025 2:35:46 PM Lat:32.837146, Long:-103.888882 Current remediation
Viewing Direction: Northwest  Descriptive Photo - 7 Viewing Direction: Northwest Owner: Current remediation Created: 9/11/2025 2:35:46 PM Lat:32.837146, Long:-103.888882 Current remediation	Viewing Direction: Northwest  Descriptive Photo - 8 Viewing Direction: Northwest Owner: Current remediation Created: 9/11/2025 2:35:46 PM Lat:32.837146, Long:-103.888882 Current remediation

Daily Site Visit Report



Viewing Direction: West	Viewing Direction: East
 Descriptive Photo - 10 Viewing Direction: West Date: Current remediation Created: 8/11/2025 2:46:13 PM Latitude: 33.44079, Longitude: 102.44444	 Descriptive Photo - 10 Viewing Direction: East Date: Current remediation Created: 8/11/2025 2:46:13 PM Latitude: 33.44079, Longitude: 102.44444
Cellar Hydrovaced	Current remediation

Daily Site Visit Report



Client:	XTO Energy Inc. (US)	Incident ID #:	
Site Location Name:	Hat Mesa 31 State 002	API #:	
Inspection Date:	6/12/2025		

Summary of Times

Arrived at Site	6/12/2025 11:00 AM
Departed Site	6/12/2025 4:30 PM

Daily Site Visit Report



Field Notes

- 15:25 South wall was extended in one area
- 15:26 Excavation on north east side near pumpjack was Hydrovaced and excavated
- 15:26 BS25-01 through BS25-07 were collected and field screened
- 15:27 Excavation went down to 2' around BS25-01, BS25-03, and BS25-05
- 15:27 Wall samples were collected and field screened to verify site criteria has been met
- 15:28 Map updates were made
- 15:28 Excavation area was fenced off

Next Steps & Recommendations

- 1 Confirmation samples/ deliver to lab
- 2 Tables/ maps/ reporting

Daily Site Visit Report



Site Photos

Viewing Direction: West



BS25-01 @ 1'

Viewing Direction: South



BS25-02 @ 1'

Viewing Direction: West



BS25-03 @ 1'

Viewing Direction: South



BS25-04 @ 1'

Daily Site Visit Report



Viewing Direction: West  Descriptive Photo - 5 Viewing Direction: West Date: 6/13/2025 @ 11:11 AM Created: 6/13/2025 10:57:51 AM Lat:32.855055, Long:-102.598111	Viewing Direction: North  Descriptive Photo - 6 Viewing Direction: North Date: 6/13/2025 @ 11:11 AM Created: 6/13/2025 10:58:11 AM Lat:32.855055, Long:-102.598111
BS25-05 @ 1'	BS25-06 @ 1'
Viewing Direction: Southeast  Descriptive Photo - 7 Viewing Direction: Southeast Date: 6/13/2025 @ 11:11 AM Created: 6/13/2025 10:58:11 AM Lat:32.855055, Long:-102.598111	Viewing Direction: Southwest  Descriptive Photo - 8 Viewing Direction: Southwest Date: 6/13/2025 @ 11:11 AM Created: 6/13/2025 10:58:48 AM Lat:32.855055, Long:-102.598111
BS25-07 @ 1'	WS25-01 @ 0-1'

Daily Site Visit Report



Viewing Direction: Northeast Descriptive Photo - 11 Viewing Direction: Northeast Date: 6/13/2025 @ 4:17 Created: 6/13/2025 11:00:00 AM Lat:32.535124, Long:-100.666004 WS25-02 @ 0-1'	Viewing Direction: East Descriptive Photo - 10 Viewing Direction: East Date: 6/13/2025 @ 4:17 Created: 6/13/2025 1:17:12 PM Lat:32.535124, Long:-100.666004 BS25-15 @ 1'
Viewing Direction: Northeast Descriptive Photo - 11 Viewing Direction: Northeast Date: 6/13/2025 @ 4:17 Created: 6/13/2025 3:17:33 PM Lat:32.535124, Long:-100.666004 BS25-16 @ 1'	Viewing Direction: West Descriptive Photo - 10 Viewing Direction: West Date: 6/13/2025 @ 4:17 Created: 6/13/2025 1:17:12 PM Lat:32.535124, Long:-100.666004 BS25-01 @ 2'

Daily Site Visit Report



Viewing Direction: Northwest  Descriptive Photo - 13 Viewing Direction: Northwest Date: 6/13/2025 Created: 5/13/2025 5:28:16 PM Lat: 32.440202, Long: -102.696111 BS25-14 @ 2'	Viewing Direction: West  Descriptive Photo - 14 Viewing Direction: West Date: 6/13/2025 Created: 5/13/2025 5:28:16 PM Lat: 32.440202, Long: -102.696111 BS25-03 @ 2'
Viewing Direction: West  Descriptive Photo - 15 Viewing Direction: West Date: 6/13/2025 Created: 5/13/2025 5:28:16 PM Lat: 32.440202, Long: -102.696111 BS25-05 @ 2'	Viewing Direction: West  Descriptive Photo - 16 Viewing Direction: West Date: Excavation at end of day Created: 5/13/2025 5:28:16 PM Lat: 32.440202, Long: -102.696111 Excavation at end of day



Daily Site Visit Report

Viewing Direction: Northwest  Descriptive Photo - 17 Viewing Direction: Northwest Date: Excavation at end of day Created: 8/15/2025 3:55:55 PM Lat:32.595704, Long:-103.885223 Excavation at end of day	Viewing Direction: North  Descriptive Photo - 18 Viewing Direction: North Date: Excavation at end of day Created: 8/15/2025 3:55:56 PM Lat:32.595704, Long:-103.885223 Excavation at end of day
Viewing Direction: East  Descriptive Photo - 19 Viewing Direction: East Date: Excavation at end of day Created: 8/15/2025 3:55:57 PM Lat:32.595704, Long:-103.885223 Excavation at end of day	Viewing Direction: Northeast  Descriptive Photo - 20 Viewing Direction: Northeast Date: Excavation fenced off Created: 8/15/2025 3:56:23 PM Lat:32.595704, Long:-103.885223 Excavation fenced off

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

A handwritten signature in black ink, appearing to be 'RA' or similar, written over a horizontal line.

Signature

Daily Site Visit Report



Client:	XTO Energy Inc. (US)	Incident ID #:	
Site Location Name:	Hat Mesa 31 State 002	API #:	
Inspection Date:	6/13/2025		

Summary of Times

Arrived at Site	6/13/2025 11:30 AM
Departed Site	6/13/2025 2:30 PM

Daily Site Visit Report



Field Notes

- 13:20** BS25-01 through BS25-17 were collected
- 13:20** WS25-01 through WS25-05 were collected
- 13:21** All samples were jarred and labeled
- 13:21** Coc's were created

Next Steps & Recommendations

- 1 Tables, mapping updates and reporting
- 2 Backfill excavation

Daily Site Visit Report



Site Photos

Viewing Direction: West  Descriptive Photo - 1 Viewing Direction: West Date: 6/13/2025 @ 2:11 Created: 6/13/2025 11:40:59 AM Latitude: 33.5000, Longitude: -102.5000	Viewing Direction: North  Descriptive Photo - 2 Viewing Direction: North Date: 6/13/2025 @ 2:11 Created: 6/13/2025 11:40:59 AM Latitude: 33.5000, Longitude: -102.5000
BS25-01 @ 2'	BS25-02 @ 1'
Viewing Direction: West  Descriptive Photo - 3 Viewing Direction: West Date: 6/13/2025 @ 2:11 Created: 6/13/2025 11:41:02 AM Latitude: 33.5000, Longitude: -102.5000	Viewing Direction: West  Descriptive Photo - 4 Viewing Direction: West Date: 6/13/2025 @ 2:11 Created: 6/13/2025 11:41:02 AM Latitude: 33.5000, Longitude: -102.5000
BS25-03 @ 2'	BS25-04 @ 1'

Daily Site Visit Report



Viewing Direction: West  Descriptive Photo - 5 Viewing Direction: West Date: 8/25/2025 @ 2: Created: 8/25/2025 11:53:54 AM Lat:33.536254, Long:-103.898133 BS25-05 @ 2'	Viewing Direction: North  Descriptive Photo - 6 Viewing Direction: North Date: 8/25/2025 @ 2: Created: 8/25/2025 11:53:56 AM Lat:33.536254, Long:-103.898133 BS25-06 @ 1'
Viewing Direction: South  Descriptive Photo - 7 Viewing Direction: South Date: 8/25/2025 @ 2: Created: 8/25/2025 11:54:07 AM Lat:33.536254, Long:-103.898133 BS25-07 @ 1'	Viewing Direction: West  Descriptive Photo - 8 Viewing Direction: West Date: 8/25/2025 @ 2: Created: 8/25/2025 11:54:21 AM Lat:33.536254, Long:-103.898133 BS25-08 @ 1'



Daily Site Visit Report

Viewing Direction: West  Descriptive Photo - 9 Viewing Direction: West Date: 6/13/2025 11:55:00 AM Lat:33.595000, Long:-110.985000 BS25-09 @ 1'	Viewing Direction: South  Descriptive Photo - 10 Viewing Direction: South Date: 6/13/2025 11:55:00 AM Lat:33.595000, Long:-110.985000 BS25-10 @ 1'
Viewing Direction: North  Descriptive Photo - 11 Viewing Direction: North Date: 6/13/2025 12:00:00 PM Lat:33.595000, Long:-110.985000 BS25-11 @ 1'	Viewing Direction: Southeast  Descriptive Photo - 12 Viewing Direction: Southeast Date: 6/13/2025 12:01:00 PM Lat:33.595000, Long:-110.985000 BS25-12 @ 1'

Daily Site Visit Report



Viewing Direction: Northeast BS25-13 @ 1'	Viewing Direction: East BS25-15 @ 1'
Viewing Direction: East BS25-16 @ 1'	Viewing Direction: Northeast BS25-14 @ 2'

Daily Site Visit Report



Viewing Direction: North  Geospatial Photo - 17 Location: [illegible] Date: 10/13/2025 Created: 10/13/2025 12:46:41 PM Lat: 32.0000, Long: -102.0000	Viewing Direction: Southwest  Geospatial Photo - 18 Location: [illegible] Date: 10/13/2025 Created: 10/13/2025 12:46:41 PM Lat: 32.0000, Long: -102.0000
BS25-17 @ 2'	WS25-01 @ 0-2'
Viewing Direction: West  Geospatial Photo - 19 Location: [illegible] Date: 10/13/2025 Created: 10/13/2025 12:47:24 PM Lat: 32.0000, Long: -102.0000	Viewing Direction: North  Geospatial Photo - 20 Location: [illegible] Date: 10/13/2025 Created: 10/13/2025 12:48:15 PM Lat: 32.0000, Long: -102.0000
WS25-02 @ 0-1'	WS25-03 @ 0-2'

Daily Site Visit Report



Viewing Direction: North Descriptive Photo - 21 Viewing Direction: North Location: WS25-05 @ 0-2' Created: 07/20/2025 11:08:17 AM 12.8MB, 1024x768, 100 people	Viewing Direction: Southeast Descriptive Photo - 22 Viewing Direction: South Location: WS25-04 @ 0-1' Created: 07/20/2025 11:08:17 AM 12.8MB, 1024x768, 100 people
WS25-05 @ 0-2'	WS25-04 @ 0-1'
Viewing Direction: North Descriptive Photo - 23 Viewing Direction: North Location: BACKFILL sample Created: 07/20/2025 11:08:17 AM 12.8MB, 1024x768, 100 people	
BACKFILL sample	

Daily Site Visit Report



Client:	XTO Energy Inc. (US)	Incident ID #:	
Site Location Name:	Hat Mesa 31 State 002	API #:	
Inspection Date:	9/23/2025		

Summary of Times

Arrived at Site	9/23/2025 8:30 AM
Departed Site	9/23/2025 3:30 PM

Daily Site Visit Report



Field Notes

- 11:08 Travel to site/ safety paperwork
- 11:08 All walls of excavation were extended by 3'
- 11:08 Wall samples were taken and field screened
- 11:09 Field screening determined south wall of excavation must be extended again
- 13:59 Small portion of excavation was dug to 9'
- 13:59 Southern wall was extended another 3'

Next Steps & Recommendations

- 1 Complete excavation
- 2 Confirmation sampling
- 3 Haul contaminated material to disposal
- 4 Reporting

Daily Site Visit Report



Site Photos

Viewing Direction: West  Descriptive Photo - 1 Viewing Direction: West Date: 9/23/2025 10:44 AM Created: 9/23/2025 10:44 AM Last Modified: 9/23/2025 10:44 AM All walls of excavation being extended outward by approximately 3'	Viewing Direction: South  Descriptive Photo - 2 Viewing Direction: South Date: 9/23/2025 10:44 AM Created: 9/23/2025 10:44 AM Last Modified: 9/23/2025 10:44 AM WS25-01 @ 0-3'
Viewing Direction: Southeast  Descriptive Photo - 3 Viewing Direction: Southeast Date: 9/23/2025 10:44 AM Created: 9/23/2025 10:44 AM Last Modified: 9/23/2025 10:44 AM WS25-02 @ 0-3'	Viewing Direction: Northeast  Descriptive Photo - 4 Viewing Direction: Northeast Date: 9/23/2025 10:44 AM Created: 9/23/2025 10:44 AM Last Modified: 9/23/2025 10:44 AM WS25-03 @ 0-3'



Daily Site Visit Report

Viewing Direction: Northwest  Descriptive Photo - 4 Viewing Direction: Northwest Date: 9/23/25 11:42 AM Created: 9/23/25 11:42 AM Lat: 32.8306, Long: -102.5611 WS25-04 @ 0-3'	Viewing Direction: West  Descriptive Photo - 5 Viewing Direction: West Date: 9/23/25 11:42 AM Created: 9/23/25 11:42 AM Lat: 32.8306, Long: -102.5611 Additional extension being added to southern wall
Viewing Direction: East  Descriptive Photo - 7 Viewing Direction: East Date: 9/23/25 11:42 AM Created: 9/23/25 11:42 AM Lat: 32.8306, Long: -102.5611 A portion of excavation was found with contamination this portion was excavated to 9'	Viewing Direction: South  Descriptive Photo - 8 Viewing Direction: South Date: 9/23/25 11:42 AM Created: 9/23/25 11:42 AM Lat: 32.8306, Long: -102.5611 WS25-01 @ 0-3' with additional extension

Daily Site Visit Report



Viewing Direction: Southeast	Viewing Direction: East
 Descriptive Photo - 10 Viewing Direction: Southeast Date: 9/23/2025 1:56:34 PM Created: 9/23/2025 1:56:34 PM Lat: 32.836617, Long: -103.896221	 Descriptive Photo - 10 Viewing Direction: East Date: 9/23/2025 1:56:34 PM Created: 9/23/2025 1:56:34 PM Lat: 32.836617, Long: -103.896221
WS25-02 @ 0-3' with additional extension	An additional 3 extension must be added to southern wall

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

A handwritten signature in black ink, appearing to be 'RA', written over a horizontal line. Below the line, the word 'Signature' is printed in a small font.

Daily Site Visit Report



Client:	XTO Energy Inc. (US)	Incident ID #:	
Site Location Name:	Hat Mesa 31 State 002	API #:	
Inspection Date:	9/24/2025		

Summary of Times

Arrived at Site	9/24/2025 1:30 PM
Departed Site	9/24/2025 4:00 PM

Daily Site Visit Report



Field Notes

- 13:30** Excavation continued at 3'
- 13:30** Contaminated material was placed on plastic liner and hauled to disposal
- 14:20** Base and wall samples were collected and field screened
- 14:20** Test trenches were cut into southern wall to determine how far out to extend wall

Next Steps & Recommendations

- 1** Confirmation sampling
- 2** Report writing

Daily Site Visit Report



Site Photos

Viewing Direction: East



3' excavation continues

Viewing Direction: South



WS25-01 @ 0-3'

Viewing Direction: Southeast



WS25-02 @ 0-3'

Viewing Direction: Northeast



BS25-08 @ 3'

Daily Site Visit Report



Viewing Direction: West  Descriptive Photo # 1 Viewing Direction: West Date: 9/24/2025 2:00:15 PM Created: 9/24/2025 2:00:15 PM Lat: 33.00000, Long: -112.00000 BS25-17 @ 3'	Viewing Direction: East  Descriptive Photo # 2 Viewing Direction: East Date: 9/24/2025 2:00:15 PM Created: 9/24/2025 2:00:15 PM Lat: 33.00000, Long: -112.00000 BS25-12 @ 3'
Viewing Direction: East  Descriptive Photo # 3 Viewing Direction: East Date: 9/24/2025 2:00:15 PM Created: 9/24/2025 2:00:15 PM Lat: 33.00000, Long: -112.00000 Another extension needs to be added to southern wall	Viewing Direction: South  Descriptive Photo # 4 Viewing Direction: South Date: 9/24/2025 2:00:15 PM Created: 9/24/2025 2:00:15 PM Lat: 33.00000, Long: -112.00000 Test trench for WS25-01 +3'

Daily Site Visit Report



Viewing Direction: East	Viewing Direction: North
 Descriptive Photo: 01 Viewing Direction: East Dew: Test trench for WS25-01 Created: 9/24/2025 2:12:13 PM Lat:32.84447, Long:-113.4991	 Descriptive Photo: 02 Viewing Direction: North Dew: Area between pumpjack and well head Created: 9/24/2025 2:35:48 PM Lat:32.84447, Long:-113.4991
Stepped out Test trench for WS25-01 by 6'	Area between pumpjack and well head was hand dug.

Daily Site Visit Report



Client:	XTO Energy Inc. (US)	Incident ID #:	
Site Location Name:	Hat Mesa 31 State 002	API #:	
Inspection Date:	9/29/2025		

Summary of Times

Arrived at Site	9/29/2025 8:30 AM
Departed Site	9/29/2025 2:30 PM

Daily Site Visit Report



Field Notes

- 8:49 Southern wall was extended
- 8:49 Remediation area was mapped
- 8:49 Confirmation sampling began
- 16:37 Samples were field screened
- 16:37 Samples were jarred and labeled
- 16:37 Coc's were created

Next Steps & Recommendations

- 1 Complete confirmation sampling
- 2 Send samples to lab for further analysis
- 3 Report/ backfill

Daily Site Visit Report

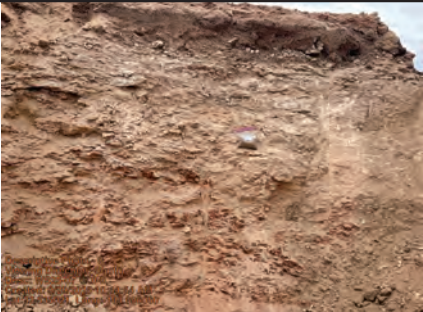


Site Photos

Viewing Direction: East  Quadrature Photo - 1 Viewing Direction: East Date: Southern wall extended Created: 9/29/2025 10:15:11 AM Lat: 33.04496, Long: -112.04021	Viewing Direction: Southwest  Quadrature Photo - 2 Viewing Direction: Southwest Date: Southern wall extended Created: 9/29/2025 10:15:11 AM Lat: 33.04496, Long: -112.04021
Southern wall extended	WS25-01 @ 0-3'
Viewing Direction: South  Quadrature Photo - 3 Viewing Direction: South Date: WS25-02 @ 0-3' Created: 9/29/2025 10:15:11 AM Lat: 33.04496, Long: -112.04021	Viewing Direction: East  Quadrature Photo - 4 Viewing Direction: East Date: WS25-03 @ 0-3' Created: 9/29/2025 10:15:11 AM Lat: 33.04496, Long: -112.04021
WS25-02 @ 0-3'	WS25-03 @ 0-3'

Daily Site Visit Report



Viewing Direction: North  Descriptive Photo - 4 Viewing Direction: North Date: 10/24/2025 @ 0-3' Created: 10/24/2025 10:55:57 AM Lat: 33.833137, Long: -112.048092	Viewing Direction: Northwest  Descriptive Photo - 5 Viewing Direction: Northwest Date: 10/24/2025 @ 0-3' Created: 10/24/2025 10:57:13 AM Lat: 33.833136, Long: -112.048092
WS25-04 @ 0-3'	WS25-05 @ 0-3'
Viewing Direction: West  Descriptive Photo - 6 Viewing Direction: West Date: 10/24/2025 @ 0-3' Created: 10/24/2025 10:58:30 AM Lat: 33.833137, Long: -112.048092	Viewing Direction: South  Descriptive Photo - 7 Viewing Direction: South Date: 10/24/2025 @ 0-3' Created: 10/24/2025 10:59:43 AM Lat: 33.833136, Long: -112.048092
WS25-06 @ 0-3'	WS25-07 @ 0-9'

Daily Site Visit Report



Viewing Direction: Northwest  WS25-08 @ 0-9'	Viewing Direction: Northeast  WS25-09 @ 0-9'
Viewing Direction: West  WS25-10 @ 0-1.5'	Viewing Direction: West  BS25-01 @ 3'

Daily Site Visit Report



Viewing Direction: Northwest	
	
BS25-02 @ 1.5'	

Daily Site Visit Report



Client:	XTO Energy Inc. (US)	Incident ID #:	
Site Location Name:	Hat Mesa 31 State 002	API #:	
Inspection Date:	9/30/2025		

Summary of Times

Arrived at Site	9/30/2025 9:00 AM
Departed Site	9/30/2025 3:30 PM

Daily Site Visit Report



Field Notes

- 9:31 Travel to site/ safety paperwork
- 14:47 Confirmation sampling continued
- 14:47 Samples were field screened
- 14:47 Samples were jarred and labeled
- 15:03 Coc's were created
- 15:16 Final map updates were made

Next Steps & Recommendations

- 1 Send samples to lab for further analysis
- 2 Report writing/ backfill

Daily Site Visit Report



Site Photos

Viewing Direction: West  BS25-03 @ 3'	Viewing Direction: Northwest  BS25-04 @ 3'
Viewing Direction: West  BS25-05 @ 3'	Viewing Direction: North  BS25-06 @ 3'

Daily Site Visit Report



Viewing Direction: South  BS25-07 @ 3'	Viewing Direction: West  BS25-08 @ 3'
Viewing Direction: North  BS25-09 @ 3'	Viewing Direction: East  BS25-10 @ 3'

Daily Site Visit Report



Viewing Direction: West  BS25-11 @ 3'	Viewing Direction: West  BS25-12 @ 3'
Viewing Direction: East  BS25-13 @ 3'	Viewing Direction: North  BS25-14 @ 3'

Daily Site Visit Report



Viewing Direction: West  Descriptive Photo - 15 Camera Orientation: West Date: 9/30/2025 11:41:48 AM Lat: 32.82519, Long: -102.898117 BS25-15 @ 3'	Viewing Direction: East  Descriptive Photo - 16 Camera Orientation: East Date: 9/30/2025 11:41:48 AM Lat: 32.82519, Long: -102.898117 BS25-16 @ 3'
Viewing Direction: Northwest  Descriptive Photo - 17 Camera Orientation: Northwest Date: 9/30/2025 11:41:48 AM Lat: 32.82519, Long: -102.898117 BS25-17 @ 3'	Viewing Direction: Northeast  Descriptive Photo - 18 Camera Orientation: Northeast Date: 9/30/2025 11:41:48 AM Lat: 32.82519, Long: -102.898117 BS25-18 @ 3'

Daily Site Visit Report



Viewing Direction: North Descriptive Photo - 17 Viewing Direction: North Date: 9/29/2025 9:30 AM Created: 9/29/2025 11:25:40 AM Latitude: 33.050004, Longitude: 108.883141	Viewing Direction: Southwest Descriptive Photo - 18 Viewing Direction: Southwest Date: 9/29/2025 9:30 AM Created: 9/29/2025 11:25:40 AM Latitude: 33.050004, Longitude: 108.883141
BS25-19 @ 3'	BS25-20 @ 3'
Viewing Direction: South Descriptive Photo - 19 Viewing Direction: South Date: 9/29/2025 9:30 AM Created: 9/29/2025 11:25:40 AM Latitude: 33.050004, Longitude: 108.883141	Viewing Direction: Southeast Descriptive Photo - 20 Viewing Direction: Southeast Date: 9/29/2025 9:30 AM Created: 9/29/2025 11:25:40 AM Latitude: 33.050004, Longitude: 108.883141
BS25-21 @ 3'	BS25-22 @ 3'

Daily Site Visit Report



BS25-23 @ 3'



BS25-24 @ 3'



BS25-25 @ 9'



Daily Site Visit Report

Client:	XTO Energy Inc. (US)	Incident ID #:	
Site Location Name:	Hat Mesa 31 State 002	API #:	
Inspection Date:	10/13/2025		

Summary of Times

Arrived at Site	10/13/2025 8:20 AM
Departed Site	10/13/2025 1:00 PM

Field Notes

9:18 Travel to site/ safety paperwork

13:44 Excavation in areas that exceeded site criteria

13:44 Confirmation samples were collected and field screened

13:44 Samples were jarred and labeled

13:44 Coc's were created

Next Steps & Recommendations

- 1 Send samples to lab for further analysis
- 2 Report
- 3 Backfill

Daily Site Visit Report



Site Photos

Viewing Direction: North



Excavation around WS25-08 @ 0-9'

Viewing Direction: Northwest



Excavation around BS25-21 @ 3'

Viewing Direction: Northeast



Excavation around BS25-04 through BS25-11 @ 3'

Viewing Direction: Southwest



BS25-21 @ 3.1'



Daily Site Visit Report

Viewing Direction: Northeast



BS25-04 through BS25-07 @ 3.1'

Viewing Direction: Southwest



BS25-09 through BS25-11 @ 3.1'

Viewing Direction: West



BS25- 18 @ 3.1'

Viewing Direction: Northwest



BS25- 17 @ 3.1'



Daily Site Visit Report

Viewing Direction: Northeast



WS25-08 @ 0-9'

Viewing Direction: Northeast



Hand Excavation. Excavation area to 1.6'

Viewing Direction: West



Excavation area around BS25-15

Viewing Direction: East



BS25-15 @ 3.1'



Daily Site Visit Report

Viewing Direction: North



BS25-02 @ 1.6'
Viewing Direction: North
Date: 10/13/2025 7:45 PM
Created: 10/13/2025 11:42:20 AM
User: 10/13/2025 11:42:20 AM

BS25-02 @ 1.6'

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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 519800

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519800
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2505144988
Incident Name	NAPP2505144988 HAT MESA 31 STATE 002 @ 30-025-34594
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-34594] HAT MESA 31 STATE #002

Location of Release Source

Please answer all the questions in this group.

Site Name	HAT MESA 31 STATE 002
Date Release Discovered	02/18/2025
Surface Owner	State

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Pump Crude Oil Released: 3 BBL Recovered: 1 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 5 BBL Recovered: 2 BBL Lost: 3 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)	Not answered.

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QUESTIONS, Page 2

Action 519800

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519800
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 10/24/2025
--	---

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QUESTIONS, Page 3

Action 519800

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519800
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	22800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	25203
GRO+DRO (EPA SW-846 Method 8015M)	20423
BTEX (EPA SW-846 Method 8021B or 8260B)	6.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/13/2025
On what date will (or did) the final sampling or liner inspection occur	10/13/2025
On what date will (or was) the remediation complete(d)	10/13/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	4883
What is the estimated volume (in cubic yards) that will be remediated	566

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 519800

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519800
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 10/24/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 519800

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519800
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 519800

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519800
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	513409
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/13/2025
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	2400

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4883
What was the total volume (cubic yards) remediated	566
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Excavation occurred on pad to address impacted soil identified during Site assessment activities. All final confirmation soil samples meet the strictest Closure Criteria.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 10/24/2025
--	---

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QUESTIONS, Page 7

Action 519800

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519800
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 519800

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519800
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	11/10/2025