



26A-00086

Remediation Work Plan

JRU DI 7 CVB

nAPP2535634554

Facility ID: fAPP2505634237

BLM Lease Number: NMNM105511565

Coordinates: 32.337511, -103.817885

Prepared for:

Exxon Mobil Production Company

Prepared by:

Vertex Resource Services Inc.

Date:

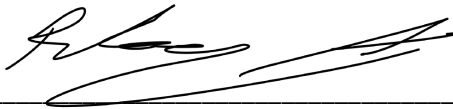
February 2026

Remediation Work Plan
JRU DI 7 CVB

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Executive Summary

ExxonMobil Production company retained Vertex Resource Services Inc. (Vertex) to complete an initial site assessment and Remediation Work Plan for the JRU DI 7 CVB (the "Site"; Facility ID: fAPP2505634237). Vertex performed the initial site assessment on January 8, 2026, and identified an area of interest (AOI) on the production site. Twelve borehole samples were obtained within the AOI. A total of 30 samples were submitted for laboratory analysis of BTEX, chlorides, and hydrocarbons. Analytical results indicated that Samples BH26-02 and BH26-04 exceeded Closure Criteria at surface while BH26-01 and BH26-04 exceeded Closure Criteria at surface and 1 foot below ground surface as defined in 19.15.29 New Mexico Administrative Code. Excavation of impacted soils within the AOI will commence once the Remediation Work Plan is approved by The New Mexico Oil Conservation Division (NMOCD). The excavation extent is expected to have a surface area of approximately 7,427 sq ft with depths of 1 and 2 feet, totaling an excavated volume of approximately 388 cubic yards.

The proposed plan is to remediate site to allowable closure criteria through excavation and removal of impacted soils. The base and walls of excavation will be sampled under NMOCD confirmation sampling event. Samples will be sent to Cardinal laboratory for analysis. Final remediation will be completed per Bureau of Land Management guidelines once production is complete.

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1.0 Introduction

ExxonMobil Production Company (ExxonMobil) retained Vertex Resource Services Inc. (Vertex) to complete an initial site assessment and Remediation Work Plan for JRU DI 7 CVB (the "Site"; Facility ID: fAPP2505634237). This Remediation Characterization Plan discusses actions conducted to date and proposes additional characterization and remediation activities.

2.0 Background

2.1 Access

The Site is located approximately 17 miles northeast of Loving, New Mexico on Bureau of Land Management (BLM) lands. Figure 1 shows the Site relative to lease boundaries.

Lease Holder: ExxonMobil Production Company
Unit Letter A, Section 06, Township 22 South, Range 31 East.
County Name: Eddy
Latitude, Longitude: 32.33739, -103.81734

The Site can be accessed from the intersection of NM 128 and Wipp Road, travel north on Wipp Road for 0.8 miles. Turn east onto Lease Road and continue for 0.3 miles. Turn north and continue for 0.2 miles, turn east onto location. There are no locked gates or other access issues.

2.2 Site Description

The Site is an active production pad for oil and gas operations. Surface and subsurface minerals are owned by BLM. The Site is situated in a mostly flat area surrounded by sandy loam plains with grassy mesquite shrublands. Grama grasses and forbs are present off the pad.

2.3 Cultural Resources Compliance

After a site assessment evaluation, the proposed work area is located entirely within a historically pre-disturbed area on a production pad. Therefore, no archaeological clearance via ARMS Survey is required per the Cultural Properties Protection rule.

Should any remediation activities require any new surface disturbance off pad, work in that area will be ceased until an ARMS Survey can be conducted to remain compliant with BLM regulations. This will include notification to BLM.

2.4 Ecological Setting

The Site is situated in the Chihuahuan Basins and Playas level IV 24a Ecoregion (Griffith et al., 2006). This ecoregion is characterized as having the following natural vegetation: Shinnery Oak, Spike Dropseed, Sand dropseed, and Sand Bluestem

The Site is within the Kermit-Berino Complex (Plate 1, Appendix B) and classified as "Not prime farmland". See Appendix A. Plate 1 for other ecological setting information

2.5 Biological Compliance

Review of critical habitats identified four potentially affected species and no critical habitats. The biological review is included in Appendix B.

While no critical habitat was identified, reclamation activities will proceed with caution in order to avoid potential impacts to threatened or proposed threatened species including, but not limited to, Northern Aplomado Falcon, Piping Plover, Texas Hornshell, and Monarch Butterfly.

In the event that any special status species are encountered during remediation activities, appropriate measures will be implemented. These measures will include immediate cessation of work in the affected area, consultation with a qualified biologist, and coordination with BLM and relevant environmental agencies to determine the necessary protection and mitigation strategies.

3.0 Site Evaluation

Initial site assessment occurred on January 8, 2026, by Vertex personnel. The spill occurred around several compressors and other production equipment, including high pressure lines. The spill was mapped and Vertex personnel met with ExxonMobil safety representative to discuss excavation plans and restrictions. Documentation of the site visits is included in the daily field reports and reclamation inspection report (Appendix C) and summarized below.

- Five boreholes were placed to define release edges; these samples were collected at surface and 1 foot below ground surface (bgs).
- Four boreholes were placed to identify vertical depth of impacted soils, these samples were collected from surface to 2 feet bgs in 1-foot increments (excluding BH26-03, which was collected to a depth of 3 feet bgs).
- Three boreholes were placed around the proposed deferral area to define the vertical and horizontal edges of the release.

3.1 Assessment of Soil Suitability

Based on Closure Criteria determination demonstrated in Appendix A and summarized in Table 1, suitable soils chemical concentrations (Closure Criteria per Table 1 of 19.15.29 New Mexico Administrative Code [NMAC]) are defined as:

Table 1. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
> 100 feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

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

Vertex on behalf of ExxonMobil requests a variance for DTGW distance criteria.

19.15.29.14 VARIANCES

A. A responsible party may file a written request for a variance from any requirement of 19.15.29 NMAC with the appropriate division district office. The variance request must include:

- (1) A detailed statement explaining the need for a variance;
 - *Depth to water well is approximately 0.03 miles outside of the limit.*
- (2) a detailed written demonstration that the variance will provide equal or better protection of fresh water, public health and the environment;
 - *USGS-321946103492001 well was dry at 144.72 feet, showing groundwater exceeds 100 feet bgs and last measured January 16, 2013.*
 - *Characterization as shown in Appendix A. shows the site with no sensitive receptors.*
 - *Release did not leave location as shown in Figures.*

3.2 Special Soil Conditions

The area of interest (AOI) was identified during the desktop review and on-site assessment. Soil samples from the selected AOI were collected and laboratory analyzed for the constituents of concern identified in the Closure Criteria. A summary of analytical results is presented in Table 2. Laboratory Certificates of Analyses and Chain of Custody forms are presented in Appendix D.

3.2.1 Area of Interest

The (AOI) on the northwest corner of the pad was identified during the desktop review and on-site assessment. Thirty samples were collected from 12 borehole sample points during the initial on-site assessment around and within the AOI. Figure 2 identifies the AOI relative to the active production pad and borehole soil sample locations. Samples BH26-01 and BH26-03 exceeded Closure Criteria for chloride, TPH, benzene, or BTEX to a depth of 1 foot. Samples BH26-02 and BH26-04 met site Closure Criteria at a depth of 1 foot bgs. All samples taken outside of AOI met Closure Criteria at surface and 1 foot bgs.

4.0 Remediation Work Plan

Unsuitable soils will be excavated and transported to an approved disposal facility. Locally sourced caliche will be stockpiled on site. A sample will be collected and submitted for laboratory analysis of the constituents of concern to ensure quality of material. Approximately 388 cubic yards of contaminated material will be removed.

4.1 Area of Interest Remediation Steps

Due to safety concerns only one side of each compressor will be excavated at a time. Once contaminated material has been excavated from one side of each compressor, confirmation soil samples will be collected from the excavation bases and walls representing an area no greater than 200 sq. ft and submitted for laboratory analysis of chloride, BTEX, benzene, and TPH. Upon laboratory confirmation, the excavation area will be backfilled with stockpiled caliche before excavating the opposite side of each compressor.

Additionally, a section of high-pressure gas and oil lines interfere with the excavation. There is no feasible way to safely excavate this area. The surface area proposed deferral is approximately 1,047 sq feet. A confirmation event will be scheduled during which Vertex personnel will surface sample the deferral area representing an area no greater than 200 sq ft. Along with the surface samples, full horizontal and vertical delineation will be provided. Final remediation and reclamation will be deferred until such time as all oil and gas activities are terminated in accordance with 19.15.29.12 and 19.15.29.13 NMAC. Closure report will be made available within 90 from work plan approval. Figure 2. shows the proposed remediation areas and sample locations

5.0 References

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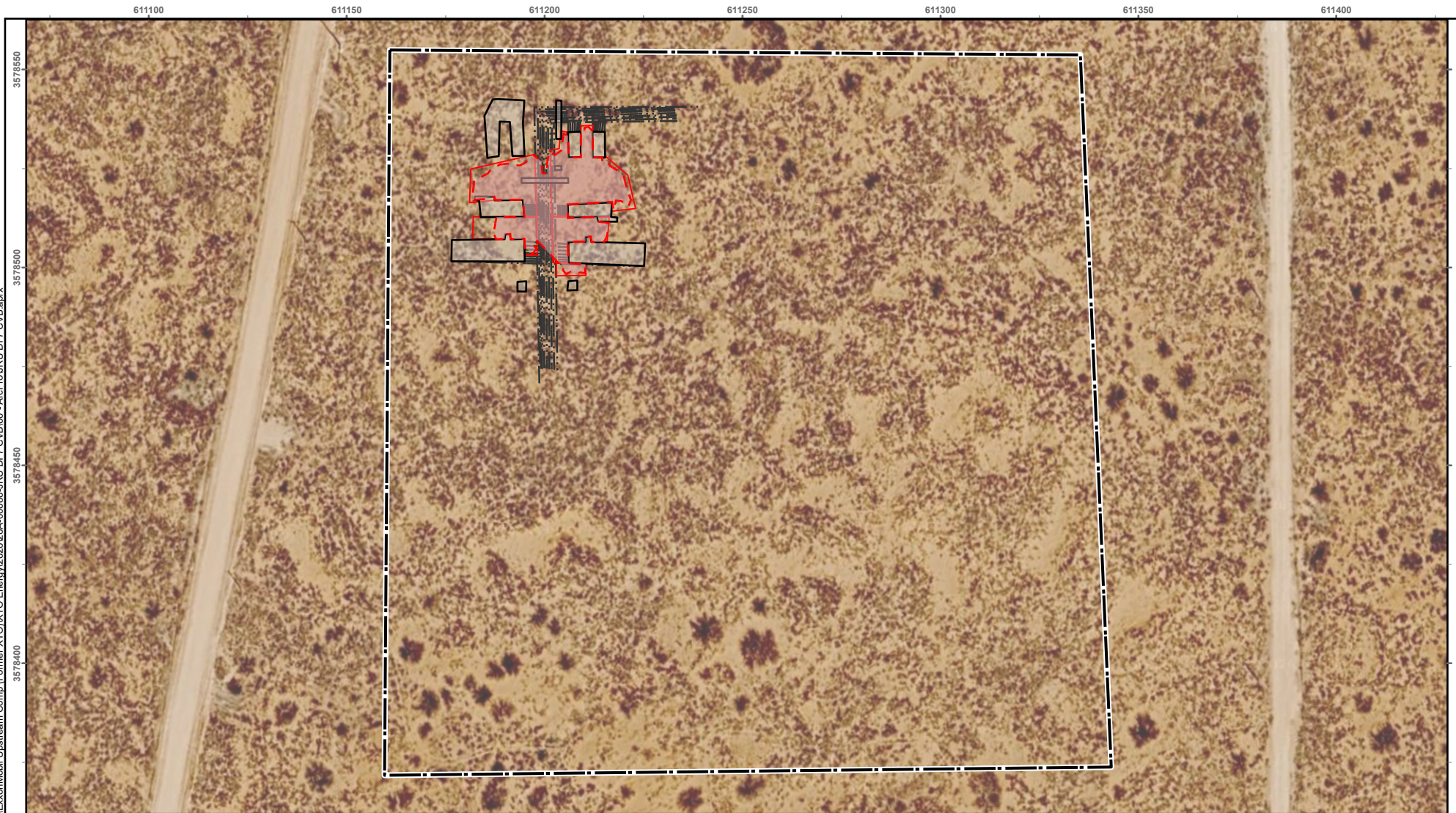
United States Fish and Wildlife Service, Ecological Services Program. (2026). *IPaC: Information for Planning and Consultation*. Retrieved from <https://ipac.ecosphere.fws.gov/location/index>

6.0 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 Bureau of Land Management, 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



- Utilities
- Approximate Lease Boundary
- Release Extent (~7,088 sq.ft.)
- Proposed Remediation Extent
- Production Equipment



0 20 40 80 120 ft.
 NAD 1983 UTM Zone 13N
 Date: Feb 17/26

Map Center:
 Lat: 32.337521°N,
 Long: 103.817895°W



Site Map
JRU DI 7 CVB

FIGURE:

1

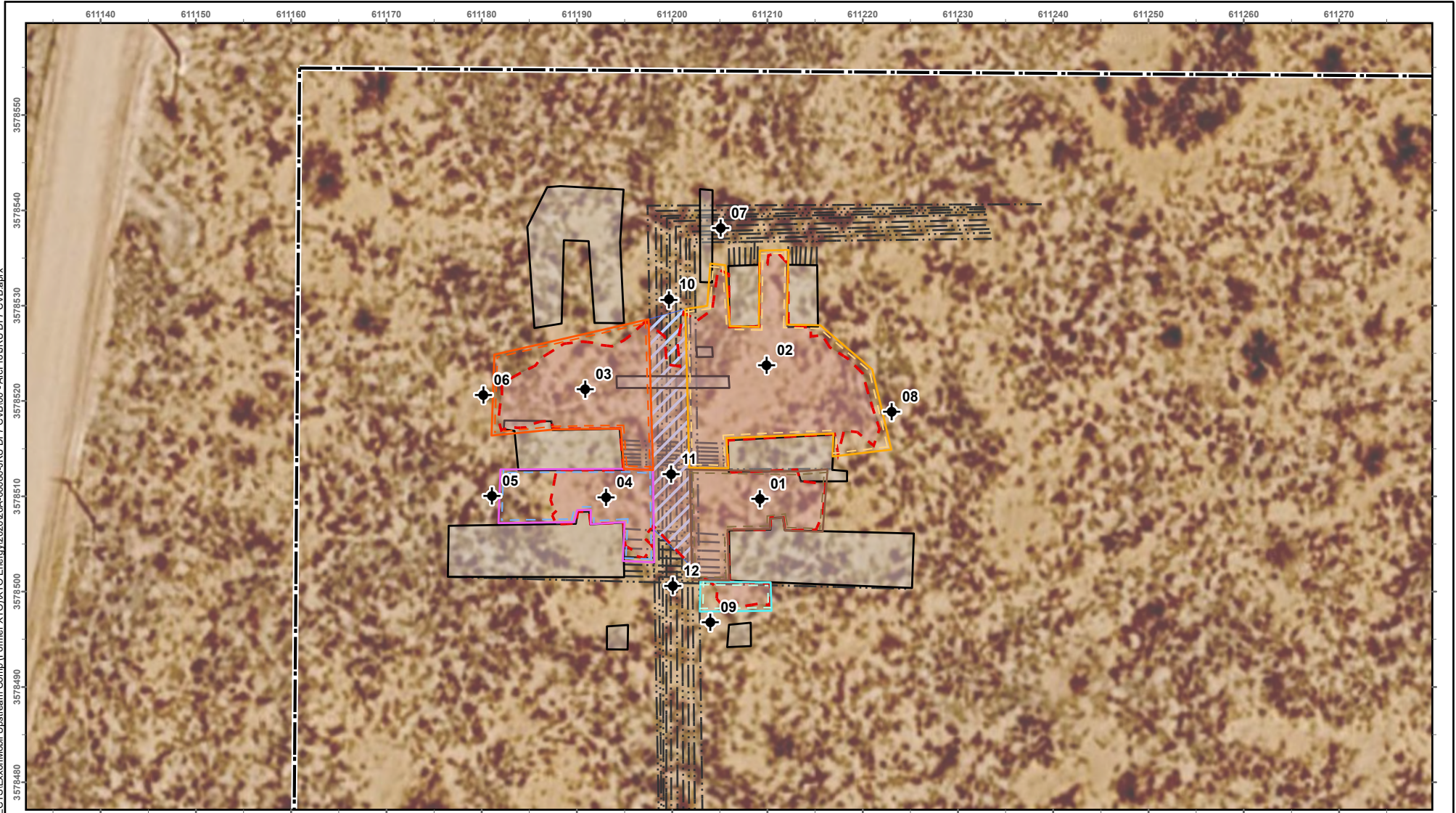


Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Google Earth, 2024. Site features from Vertex Professional Services Ltd. (VPS), 2026.

VERSATILITY. EXPERTISE.

Document Path: S:\04 - Geomatics\1-Projects\1- US PROJECTS\ExxonMobil Upstream Comp. (Former XTO)\XTO Energy\2026\26A-00086-JRU DI 7 CVB\00 - ArcPro\JRU DI 7 CVB.aprx



- ◆ Borehole (Prefixed by "BH26-")
- Utilities
- ▭ Approximate Lease Boundary
- ▭ Production Equipment
- ▭ Deferral Area (~1,047 sq.ft.)
- ▭ Release Extent (~7,088 sq.ft.)
- ▭ Proposed South Excavation to 1' bgs (~244 sq.ft.)
- ▭ Proposed South West Excavation to 1' bgs (~1,095 sq.ft.)
- ▭ Proposed North Excavation to 1' bgs (~3,049 sq.ft.)
- ▭ Proposed Central Excavation to 2' bgs (~1,150 sq.ft.)
- ▭ Proposed North West Excavation to 2' bgs (~1,885 sq.ft.)



0 20 40 ft.
 NAD 1983 UTM Zone 13N
 Date: Feb 17/26

Map Center:
 Lat: 32.338031°N,
 Long: 103.818341°W



Characterization Schematic / Remediation Plan
JRU DI 7 CVB

FIGURE:
2



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 Google Earth, 2024. Site features from Vertex Professional Services Ltd. (VPS), 2026.

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Tables

Client Name: ExxonMobil Production Company
 Site Name: JRU DI 7 CVB
 NMOCD Tracking #: nAPP2535634554
 Project #: 26A-00086
 Lab Reports: H2601600, H260184, & H260557

Table 2. Initial Characterization Laboratory Results

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					Chloride Concentration (mg/kg)
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BH26-01	0	January 8, 2026	33.6	722	7240	22400	2720	29640	32360	384
	1	January 8, 2026	0.6	37.9	473	2010	278	2483	2761	128
	2	January 8, 2026	ND	0.8	ND	70.6	ND	70.6	70.6	48
BH26-02	0	January 8, 2026	13.2	417	5680	28500	3440	34180	37620	640
	1	January 8, 2026	ND	ND	ND	71.8	ND	71.8	71.8	96
	2	January 8, 2026	ND	ND	ND	19.6	ND	19.6	19.6	32
BH26-03	0	January 8, 2026	31.4	467	4160	13900	1900	18060	19960	144
	1	January 8, 2026	10.9	305	2830	6140	684	8970	9654	336
	2	January 8, 2026	ND	1.3	10.8	46.2	ND	57	57	48
	3	January 8, 2026	ND	0.3	ND	61.4	ND	61.4	61.4	ND
BH26-04	0	January 9, 2026	2.3	412	6680	38600	4610	45280	49890	576
	1	January 9, 2026	ND	0.4	ND	173	15.3	173	188.3	256
	2	January 9, 2026	ND	ND	ND	ND	ND	ND	ND	32
BH26-05	0	January 12, 2026	ND	ND	ND	ND	ND	ND	ND	128
	1	January 12, 2026	ND	ND	ND	ND	ND	ND	ND	336
BH26-06	0	January 9, 2026	ND	ND	ND	ND	ND	ND	ND	160
	1	January 9, 2026	ND	ND	ND	ND	ND	ND	ND	192
BH26-07	0	January 9, 2026	ND	ND	ND	ND	ND	ND	ND	192
	1	January 9, 2026	ND	ND	ND	ND	ND	ND	ND	320
BH26-08	0	January 8, 2026	ND	ND	ND	ND	ND	ND	ND	128
	1	January 8, 2026	ND	ND	ND	ND	ND	ND	ND	80
BH26-09	0	January 9, 2026	ND	ND	ND	ND	ND	ND	ND	240
	1	January 9, 2026	ND	ND	ND	ND	ND	ND	ND	432
BH26-10	0.5	January 29, 2026	ND	ND	ND	ND	ND	ND	ND	112
	1	January 29, 2026	ND	ND	ND	ND	ND	ND	ND	896
BH26-11	0.5	January 29, 2026	4.9	552	4760	15000	1900	19760	21660	1630
	1	January 29, 2026	ND	1.24	12.4	136	26	148.4	174.4	96
	2	January 29, 2026	ND	ND	ND	29.6	ND	29.6	29.6	48
BH26-12	0.5	January 29, 2026	ND	ND	ND	ND	ND	ND	ND	400
	1	January 29, 2026	ND	ND	ND	ND	ND	ND	ND	256

"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. Site Assessment Maps

Closure Criteria Determination			
Site Name: JRU DI 7 CVB			
Spill Coordinates: 32.33802, -103.81779		X: UTM easting	Y: UTM northing
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	145	feet
	Distance between release and nearest DTGW reference	2,798	feet
		0.53	miles
Date of nearest DTGW reference measurement		February 11, 2004	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,565	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	11,825	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	3,128	feet
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	95,060	feet
	ii) Within 1000 feet of any fresh water well or spring	96,060	feet
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	feet
7	Within 300 feet of a wetland	4,900	feet
8	Within the area overlying a subsurface mine	No	feet
	Distance between release and nearest registered mine	21,352	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	200	feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	29,711	feet
11	Soil Type	KM, Kermit-Berino Complex	
12	Ecological Classification	R070BD005NM	
13	Geology		
	NMAC 19.15.29.12 E (Table 1) Closure Criteria		> 100'

Plate 1. Soil Classification

Ecological site R070BD005NM

Deep Sand

Accessed: 01/06/2026

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.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on terraces, Piedmonts, dunes fields, or upland plains. Parent material consists of eolian deposits and alluvium derived from sandstone. Slopes range from 0 to 15 percent, usually less than 5 percent. Low, stabilized hummocks or dunes frequently occur. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Dune (2) Parna dune (3) Terrace
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft

Slope	0–15%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.

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

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

Both temperature and moisture favor warm season perennial plant growth. During years of abundant winter and early spring moisture, cool season growth and annual forbs, make up an important component of this site. Strong winds blow from the west from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from <http://www.wrcc.sage.dri.edu/summary/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)	13 in

Influencing water features

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

Soil features

Soils are deep or very deep. Surface textures are sand loam, fine sand or loamy fine sand, Underlying material textures are loamy fine sand, fine sand, sand or fine sandy loam.

Because of the coarse textures and rapid drying of the surface, the soil, if unprotected by plant cover and organic residue, becomes windblown and low hummocks or dunes are formed around shrubs.

Characteristic soils are:

Anthony
Aguena
Kermit
Likes
Pintura
Bluepoint

Table 4. Representative soil features

Surface texture	(1) Sand (2) Fine sand (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to excessively drained
Permeability class	Moderate to very rapid
Soil depth	60–72 in
Surface fragment cover ≤3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	3–5 in
Calcium carbonate equivalent (0-40in)	5–15%
Electrical conductivity (0-40in)	0–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–7.8
Subsurface fragment volume ≤3" (Depth not specified)	5–10%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview

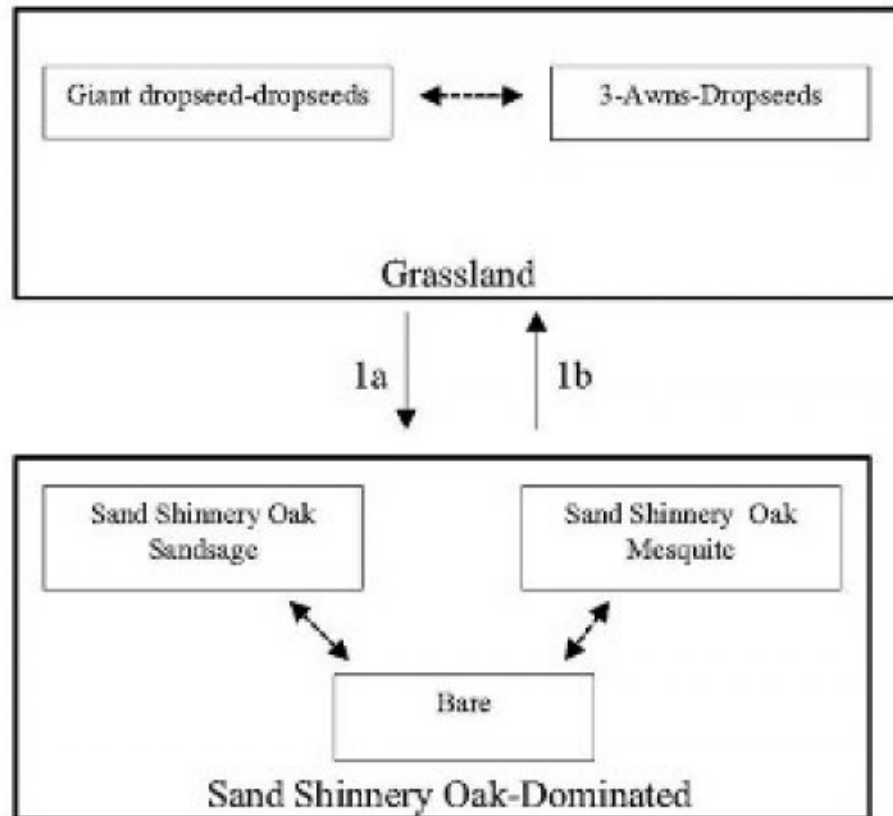
The Deep Sand site occurs adjacent to and/or intergraded with the Sandhills and Sandy sites (SD-3). The Deep Sand site can be distinguished by slopes less than eight percent

(approximately five percent) and textural changes at depths greater than 40 inches. The Deep Sand site has well drained soils with a surface texture of sand or loamy fine sand. The Sandhills site has slopes greater than eight percent and textural depths greater than 60 inches. Conversely, the Sandy site has slopes less than five percent and depths to textural change commonly around 20 inches. The historic plant community of the Deep Sand site is dominated primarily by giant dropseed (*Sporobolus giganteus*) and other dropseeds (*S. flexuosus*, *S. contractus*, *S. cryptandrus*), with scattered shinnery oak (*Quercus havardii*) and soapweed yucca (*Yucca glauca*). Other herbaceous species include threeawns (*Aristida* spp.), bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), and annual and perennial forbs distributed relative to precipitation occurrences. Bare ground and litter compose a significant proportion of ground cover while grasses are the remainder. Shinnery oak will increase with an associated decrease in dropseed and bluestem abundance possibly due to climatic change, fire suppression, interspecific competition, and excessive grazing. Continued grass cover loss may result in a transition to a shinnery oak dominated state with increases in sand sage (*Artemisia filifolia*) and honey mesquite (*Prosopis glandulosa*). However, brush management may restore the grassland component and reverse the shinnery oak state back toward the historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Deep Sand



1.a Climate, fire suppression, competition, over grazing

1.b Brush control, Prescribed grazing

State 1

Historic Climax Plant Community

Community 1.1

Historic Climax Plant Community

State Containing Historic Plant Community Grassland: The historic plant community is dominated by giant dropseed, other dropseeds, threeawns, and bluestems. Dominant woody plants include shinnery oak and soapweed yucca. Forb abundance and distribution varies and is dependent on annual rainfall. The Deep Sand site typically exists in sandy plains and dunes (Sosebee 1983). Grass dominance stabilizes the potentially erosive sandy soils. Historical fire suppression, however, may have contributed to increased woody plant abundance, which has reduced grass species. Further, drought conditions compounded with excessive grazing likely has driven most grass species out of competition with shrubs which has resulted in a shinnery oak dominated state with sand sage and mesquite (Young et al. 1948). Diagnosis: Grassland dominated by dropseeds, threeawns, and bluestems. Small shrubs, such as shinnery oak and soapweed yucca, and subshrubs are dispersed throughout the grassland. Other grasses that could appear on this site would include: flatsedge, almejita signalgrass, big bluestem, Indiangrass, fall witchgrass, hairy grama and red lovegrass Other shrubs include: fourwing saltbush, mesquite, ephedra and broom snakeweed. Other forbs include: wooly and scarlet gaura, wooly dalea, phlox heliotrope, scorpionweed, deerstongue, fleabane, nama, hoffmanseggia, lemon beebalm and stickleaf.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	396	858	1320
Shrub/Vine	108	234	360
Forb	96	208	320
Total	600	1300	2000

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-20%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	35-40%
Surface fragments >0.25" and <=3"	0%

Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	35-40%

Figure 5. Plant community growth curve (percent production by month).
 NM2805, HCPC. SD-3 Deep Sand - 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 Shinnery Oak Dominated

Community 2.1 Shinnery Oak Dominated

Shinnery oak-Dominated



- Shinnery oak and sand sage
- Large bare patches and soil blowouts in adjacent sandhills
- Extensive rhizomes reduce soil erosion
- Roswell series
- Sand bluestem, threecone, giant cactus, spike dropseed, Hall's panicum, little bluestem

Shinnery oak-Dominated



- Feather dalea, mesquite, Shinnery oak, bush muhly, four-wing saltbush, jewellina bush, and sand sage
- Pintura series loamy fine sand

Shinnery oak-Dominated



- Shinnery oak and dropseeds
- Grass cover minimizes bare patches and erosion

Shinnery Oak Dominated: This state is dominated by shinnery oak with subdominants of sand sage or mesquite. Bare ground is a significant component in this state as well. Shinnery oak is characterized by dense stands in sandy soils; however, as clay percentage increases, shinnery oak decreases. Shinnery oak abundance and distribution increase with disturbances, such as excessive grazing and fire, due to an aggressive rhizome system. As shinnery oak abundance increases, an associated increase of mesquite, sand sage, and soapweed yucca also occurs. Shinnery oak's extensive root system allows the oak to competitively exclude grasses and forbs. Sand sage, however, stabilizes light sandy soils from wind erosion and can co-exist with herbaceous species by protecting them in heavily grazed conditions (Davis and Bonham 1979). Shinnery oak has been found primarily in very deep, excessively drained, and rapidly permeable soils. Shinnery oak is associated with landforms which are gently undulating to rolling uplands, very gently sloping to moderately steep slopes, and upland plains, alluvial fans and valley sideslopes. Shinnery oak and sand sage can be controlled with herbicide if applied in the spring with a subsequent rest from grazing (Herbel et al. 1979, Pettit 1986). In addition, repetitive seasons of goat browsing can also reduce shinnery oak abundance. Patches should be maintained during brush control, however, to prevent erosion and to provide wildlife cover and forage. Further, as shinnery oak and other shrubs increase, bare patches and erosion will increase due to a lack of herbaceous ground cover. **Diagnosis:** Shinnery oak dominated with subdominant sand sage, honey mesquite, and soapweed yucca with increasing frequency and size of bare patches. **Transition to Shinnery oak dominated state (1a):** The historic plant community begins to shift toward the shinnery oak dominated state as drivers such as climate change, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by an increase of shrub species abundance and bare patch expansion. **Key indicators of approach to transition:** • Loss of grass and forb cover • Surface soil erosion • Bare patch expansion • Increased shrub species abundance and composition **Transition to Historic Plant Community (1b):** The shinnery oak dominated state may transition back toward the historic plant community as new drivers are introduced such as prescribed grazing, brush control, and discontinued drought conditions.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			450–585	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	450–585	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	450–585	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	450–585	–

	giant dropseed	SPGI	<i>Sporobolus giganteus</i>	450–585	–
2	Warm Season			65–104	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	65–104	–
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	65–104	–
3	Warm Season			39–91	
	threeawn	ARIST	<i>Aristida</i>	39–91	–
4	Warm Season			13–39	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	13–39	–
5	Warm Season			13–39	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	13–39	–
6	Warm Season			13–39	
	mat sandbur	CELO3	<i>Cenchrus longispinus</i>	13–39	–
7	Warm Season			13–39	
	Havard's panicgrass	PAHA2	<i>Panicum havardii</i>	13–39	–
8	Warm Season			13–65	
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	13–65	–
9	Other Annual Grasses			13–65	
	Grass, annual	2GA	<i>Grass, annual</i>	13–65	–
Shrub/Vine					
10	Shrub			65–130	
	Havard oak	QUHA3	<i>Quercus havardii</i>	65–130	–
11	Shrub			13–39	
	sand sagebrush	ARFI2	<i>Artemisia filifolia</i>	13–39	–
12	Shrub			65–130	
	yucca	YUCCA	<i>Yucca</i>	65–130	–
13	Shrub			13–39	
	rabbitbrush	CHRYS9	<i>Chrysothamnus</i>	13–39	–
14	Other Shrubs			13–39	
	Shrub (>.5m)	2SHRUB	<i>Shrub (>.5m)</i>	13–39	–
Forb					
15	Forb			39–91	
	croton	CROTO	<i>Croton</i>	39–91	–
	Indian blanket	GAPU	<i>Gaillardia pulchella</i>	39–91	–

16	Forb			39–91	
	aster	ASTER	<i>Aster</i>	39–91	–
	whitest evening primrose	OEAL	<i>Oenothera albicaulis</i>	39–91	–
	beardtongue	PENST	<i>Penstemon</i>	39–91	–
17	Forb			39–91	
	touristplant	DIWI2	<i>Dimorphocarpa wislizeni</i>	39–91	–
	buckwheat	ERIOG	<i>Eriogonum</i>	39–91	–
	sunflower	HELIA3	<i>Helianthus</i>	39–91	–
	spiny false fiddleleaf	HYSP	<i>Hydrolea spinosa</i>	39–91	–
	threadleaf ragwort	SEFLF	<i>Senecio flaccidus</i> var. <i>flaccidus</i>	39–91	–
18	Other Forbs			13–65	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	13–65	–

Animal community

This site provides habitat which supports a resident animal population characterized by pronghorn, antelope, black-tailed jackrabbit, spotted ground squirrel, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, meadowlark, roadrunner, white-necked raven, cactus wren, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake and ornate box turtle. In the area called Mescalero Sands, there are white-tailed and mule deer.

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

Anthony B

Bluepoint A

Kermit A

Aguena A

Likes A

Pintura A

Recreational uses

This site offers limited recreation potential for hiking, horseback riding, nature observation

and photography; game bird, predator, antelope, and deer hunting.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock during all seasons of the year. Shinnery oak is toxic in the late bud or early leaf stage. Shinnery oak will increase, as will sand sagebrush following drought. Changes in the fire return interval have also favored an increase in shrub cover. The dropseeds and bluestem will decrease. This site responds very well to brush management and deferment. This site is well suited to a grazing system that rotates the season of use. Nesting habitat for lesser prairie chicken can be improved by providing residual cover that is at least 14 inches high.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM

100 - 76 2.0 – 3.8

75 – 51 3.0 – 6.0

50 – 26 5.0 – 10.0

25 – 0 10.1 +

Inventory data references

Other 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.

Other references

Literature Cited

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. *Journal of Range Management* 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest. Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

Plate 2. Depth-to-Water

DTGW Reference 0.53 Miles

Released to Imaging: 3/10/2026 5:31:16 AM

Received by OCD: 2/20/2026 8:54:17 AM

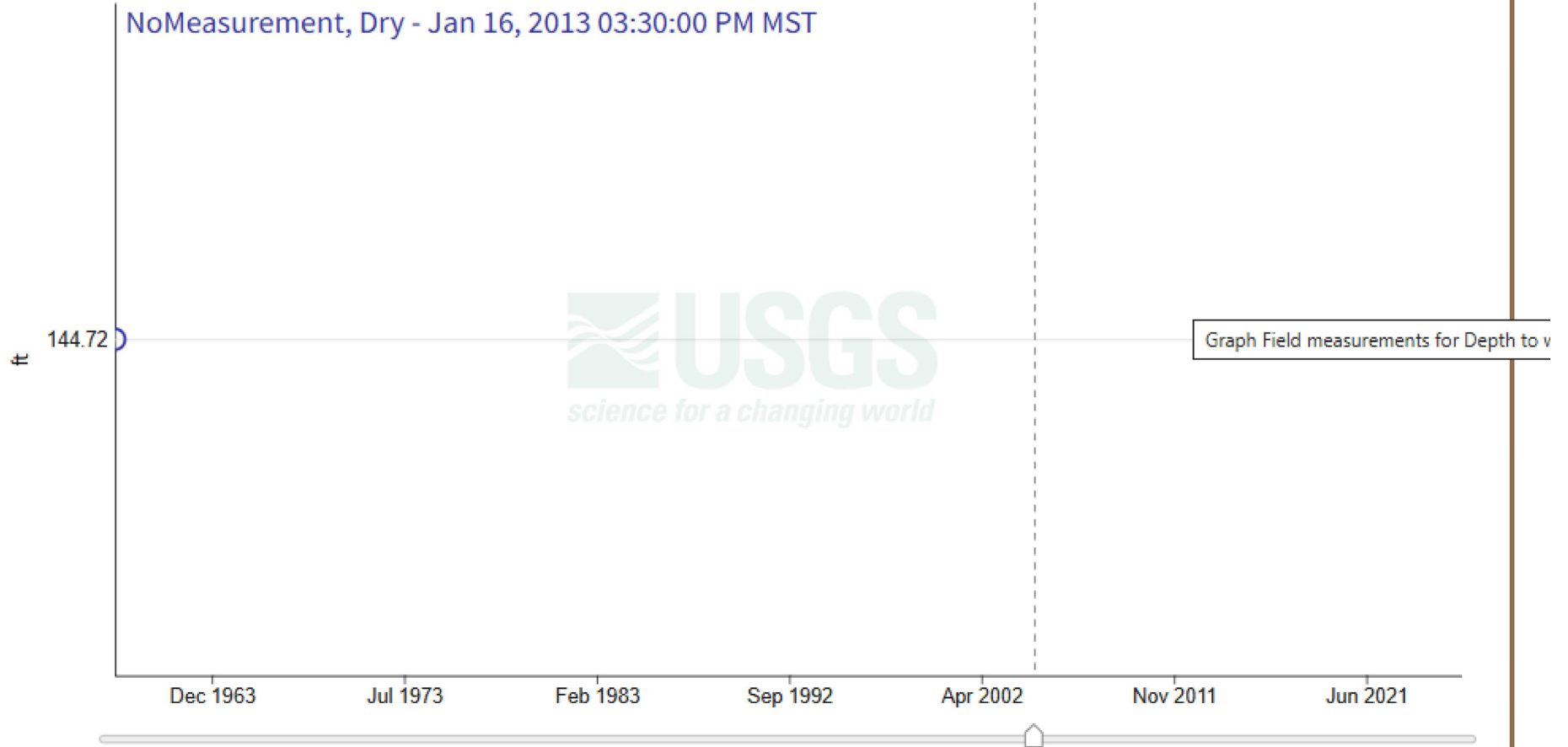
The screenshot displays the 'NM OCD OIL AND GAS MAP' interface. The map shows a grid of well sections with labels like L1, L2, L3, L4, L5, L7 and NESE (I), NESW (K), etc. A blue line connects two points: one labeled '321946103492001 2/4/1959 DTW 04.72' and another point with a search result popup. The search result popup shows coordinates: 32°20'15.039"N 103°49'04.386"W. A 'Measurement' popup on the right shows the distance as 0.53 Miles. The interface includes a search bar at the top with coordinates 32.337511, -103.817885, a layer list on the left, and a scale bar at the bottom.

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Field measurements

23S.31E.06.312333 - USGS-321946103492001

February 4, 1959 - February 16, 2026
Depth to water level, feet below land surface



IMPORTANT Data may be [provisional](#)

[Show legend](#) ▾

[Hide graph details](#) ^

	Value	Status	Time
<input checked="" type="radio"/> Selected field measurement	No data	Approved NoMeasurement, Dry	Jan 16, 2013 03:30:00 PM MST

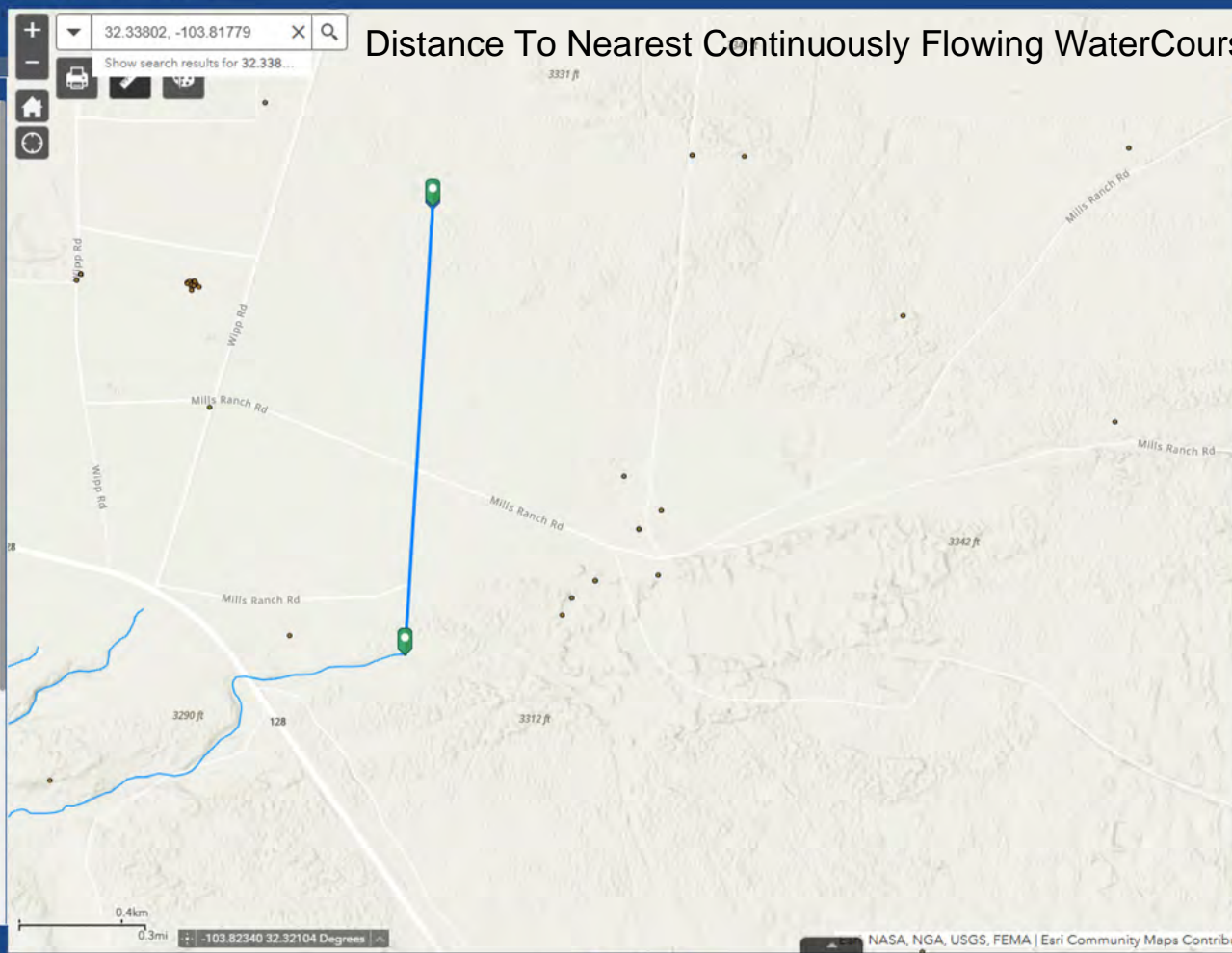
[Hide graph details](#) ^

Plate 3. Surface Water

Released to Imagers: 3/10/2026 7:55:16 AM

Received by OCD: 2/20/2026 8:54:17 AM

- Layers
- M2.5+ Earthquakes (USGS 30-day)
- OSE Points of Diversion
- NM Oil and Gas Wells
- Incidents (C-141)
- Facilities
- USGS Groundwater wells**
- Induced Seismicity Area
- Permian Basin Karst Areas
- BLM Oil Gas Leases Case Disp
- BLM Oil Gas Leases Production Status
- BLM Fluid Minerals Case
- BLM FM Agreements Case Disp
- BLM FM Agreements Production Status
- BLM FM Participating Areas Case Disp
- NM SLO Oil and Gas Leases
- NM SLO Participating Area and Unit Agreement Boundaries
- Political Boundaries and Transportation



Measurement

Feet

Measurement Result

5,565 Feet

Clear

Press CTRL to enable snapping

esri





11,824.7 ft. From Nearest Lake



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

January 6, 2026

Wetlands

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

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

96,059 ft. From Nearest Freshwater Spring

Released to Imaging: 3/10/2026 7:55:16 AM

Received by OCD: 2/20/2026 8:54:17 AM

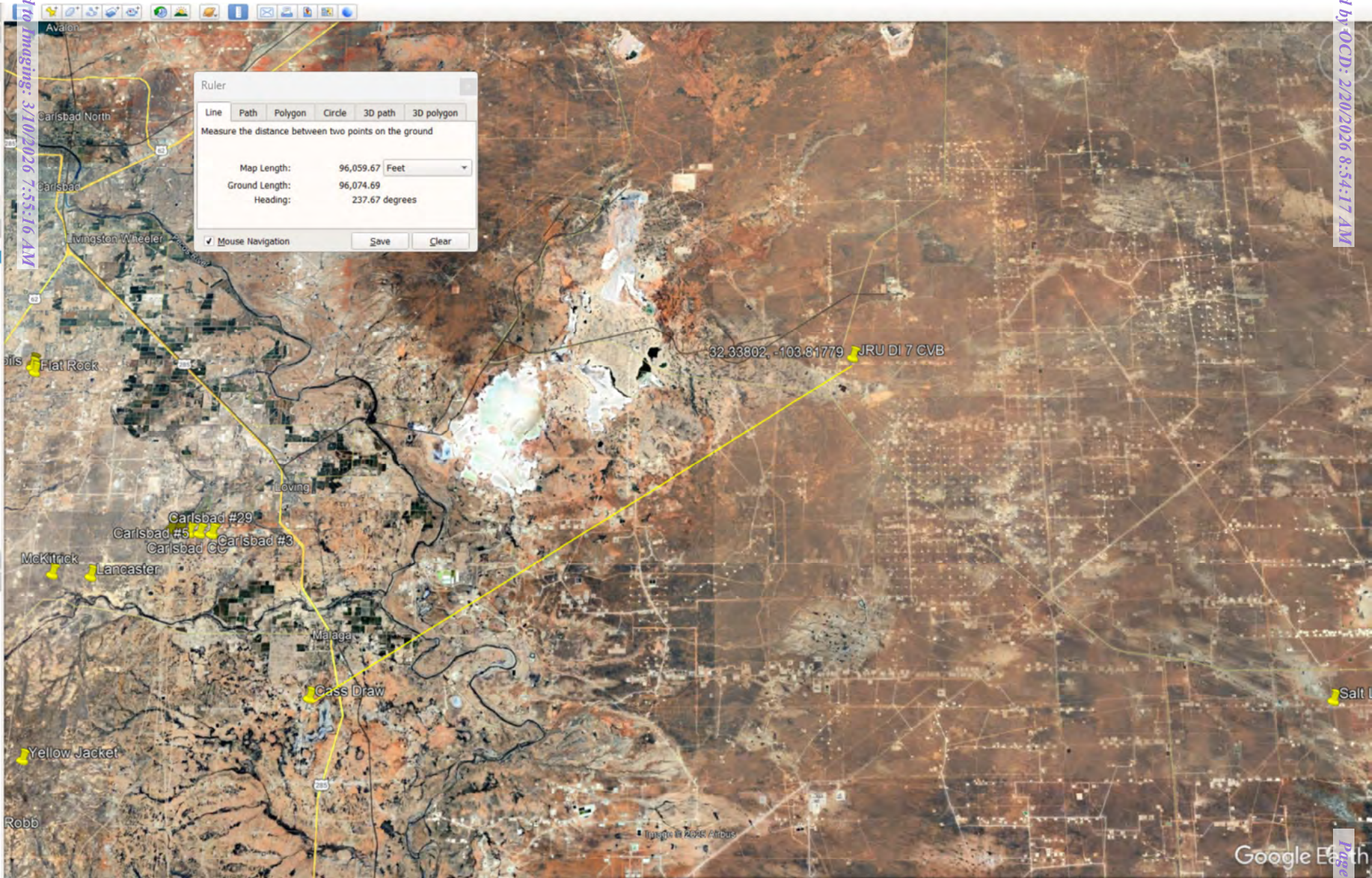


Plate 4. Occupied residence, school, hospital, etc.

3,128 ft. From Nearest Residence

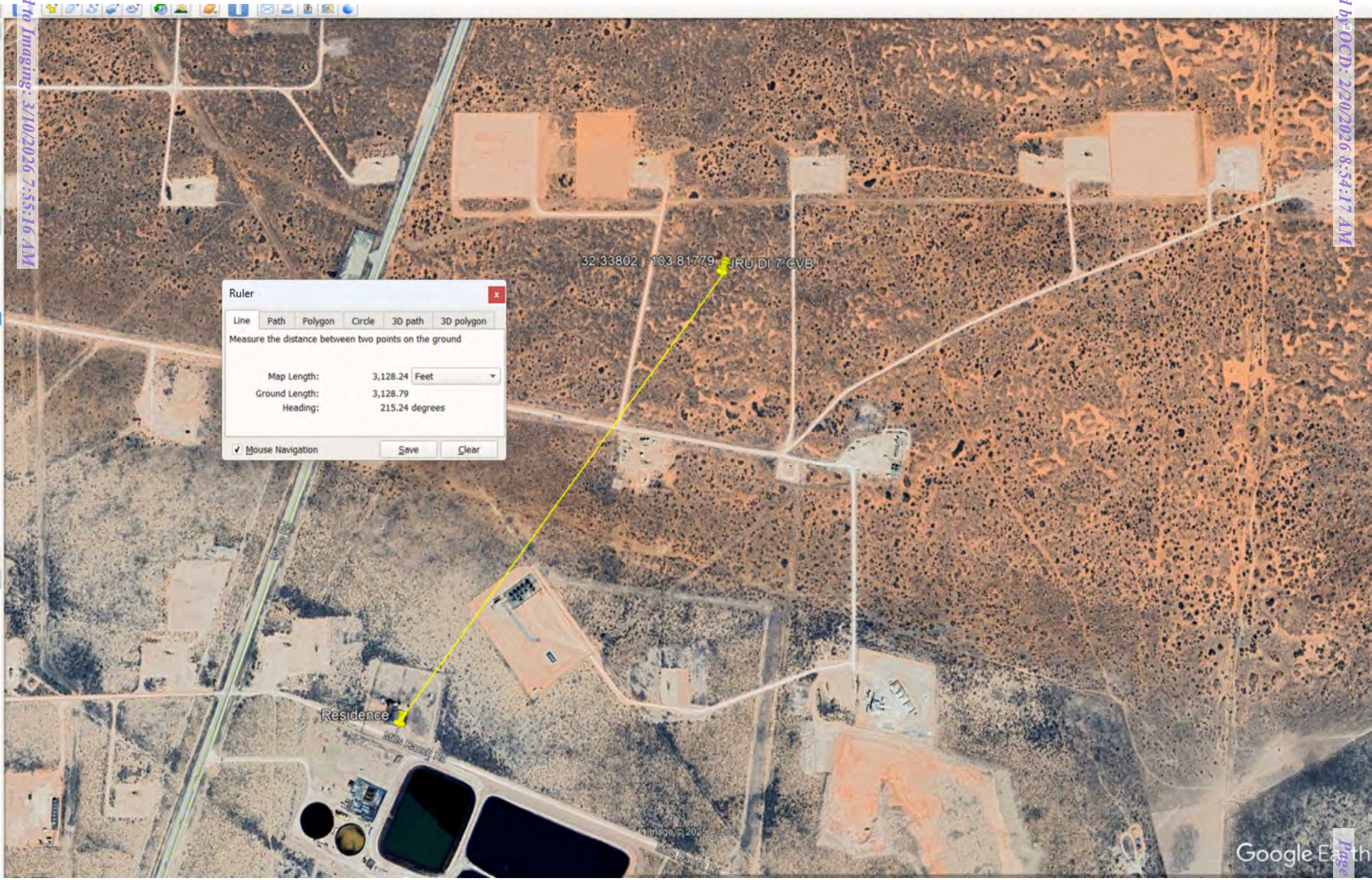


Image © 2025 Atlas

Wils Road, CO

Plate 5. Wetlands



U.S. Fish and Wildlife Service
National Wetlands Inventory

4,899.6 ft. from Nearest Wetland



January 6, 2026

Wetlands

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

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

Plate 6. Mine/Minerals

21,352 ft. From Nearest Registered Mine

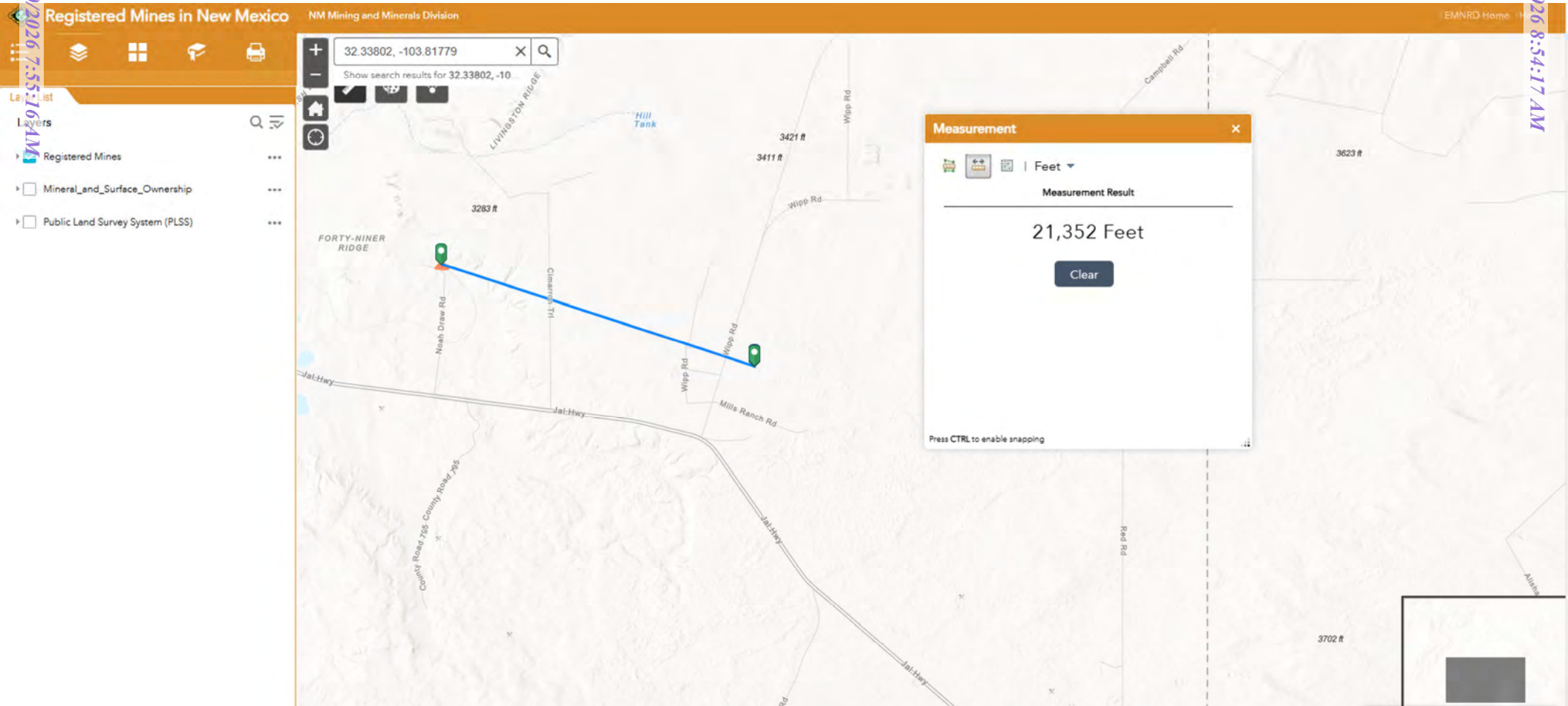
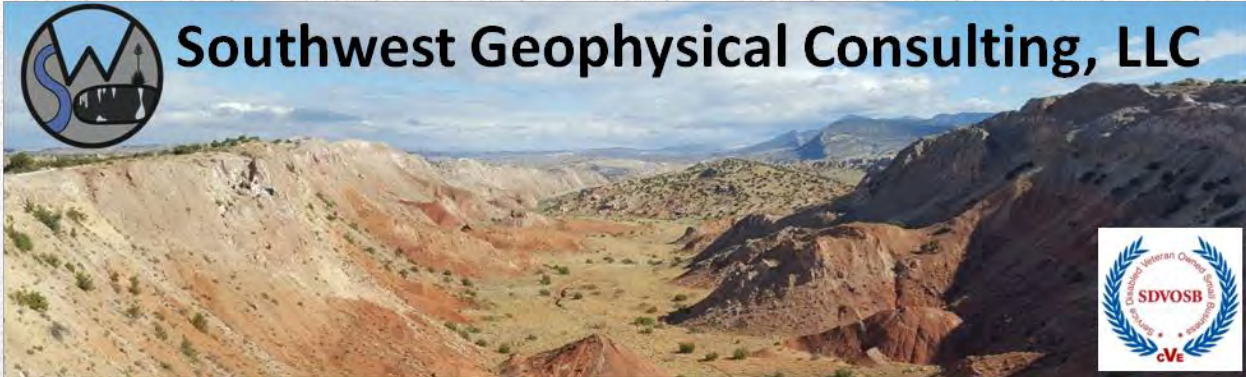


Plate 7. Karst



**Environmental Karst Study Report
XTO JRU DI 7
Eddy County, New Mexico**

**Prepared For:
Ensolum, LLC
3122 National Parks Highway
Carlsbad, NM 88220**

Within 200 feet of the Spill Delineation Boundary:

- Negative Positive for surface karst
- Negative Positive for subsurface anomalies
- Stable Unstable Ground
- Karst Monitor Recommended

December 23, 2025

ENS-030-20251118

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MMXXV

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1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on November 18, 2025, for the purpose of conducting an environmental karst study within an area encompassing the XTO JRU DI 7 release site (hereinafter termed "XJD7") centered at N 32.335517° W 103.824353°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC^[1]), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions^[2]) within 200 feet of the spill delineation boundary of the XTO JRU DI 7 release as provided by the client via e-mail (**32.337892, -103.818703; 32.337881, -103.817181; 32.336705, -103.817184; 32.336742, -103.818710** (estimated 4 corners of the XTO JRU DI 7 Pad)) on November 18, 2025, using electrical resistivity imaging^[3].

1.2 Summary of Findings

- **No surface karst features were found within 200 feet (61 meters) of the spill delineation boundary.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the XJD7 geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary.**

1.3 Affected Environment

The XJD7 project is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns that need to be considered in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[1]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **MEDIUM** karst occurrence zone (MKOZ)^[5] (**Figure 1**).

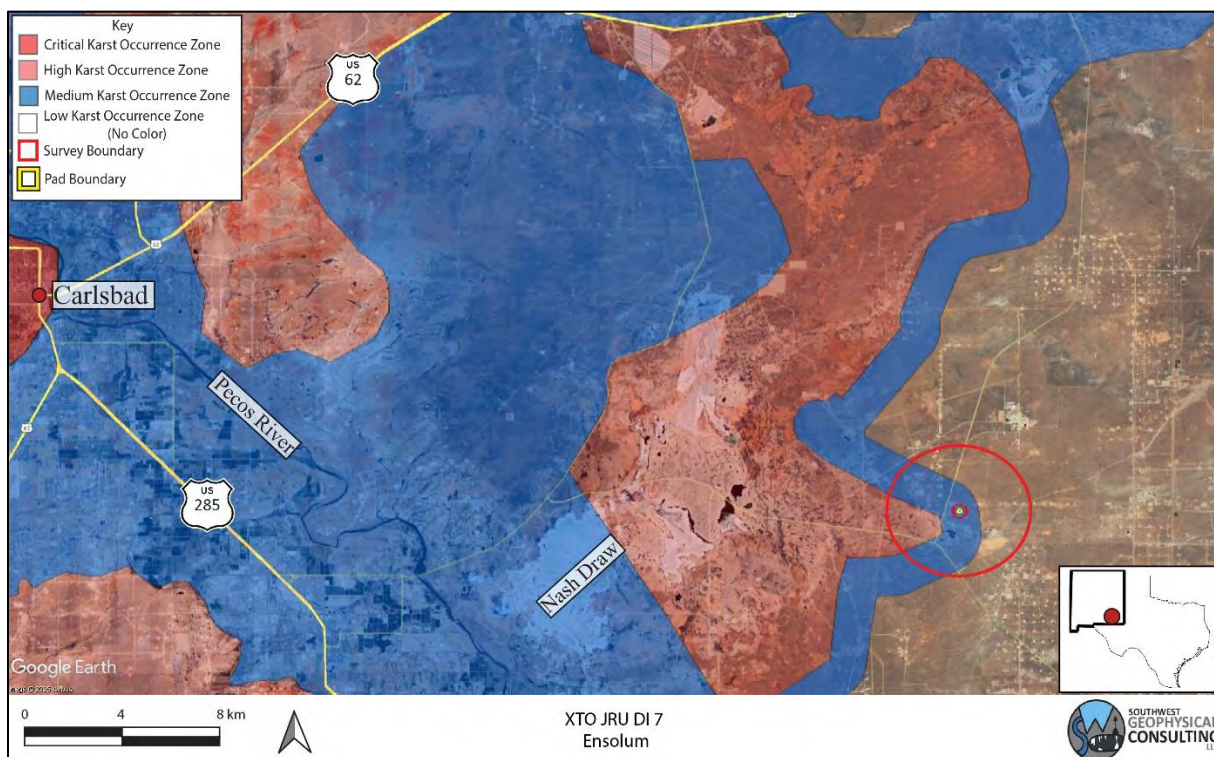


Figure 1: Karst occurrence zone overview. Please note the pad boundary represents the approximate location provided by the client. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

A medium karst occurrence zone is defined as an area in known soluble rock types that may have a shallow insoluble overburden. These areas may contain isolated karst features such as caves and sinkholes. Groundwater recharge may not be wholly dependent on karst features, but the karst features still provide the most rapid aquifer recharge in response to surface runoff^[4].

Due to the rapidity with which evaporite karst develops, each location within a BLM-CFO designated karst occurrence zone must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Ensolum, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on-site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, information contained in this report is accurate at the date of issue; however, conditions on the site can change over a short period of time and, therefore, the information in this report should not be used beyond two years, and shall not be used beyond five years past the date of the imagery collection reported in section **2.3 Description of Survey**, as per BLM guidelines. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 39.7 kilometers (24.7 miles) east-southeast of Carlsbad, New Mexico, north of the Jal Highway and east of Wipp Road. The pad is located within section 6 of NM T23S R31E^[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock^[7] (see section **2.2 Local Geology Summary** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January^[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The survey area is located within an MKOZ^[5] (**Figure 1**) and within BLM-CFO managed lands^[10] (**Figure 2**).

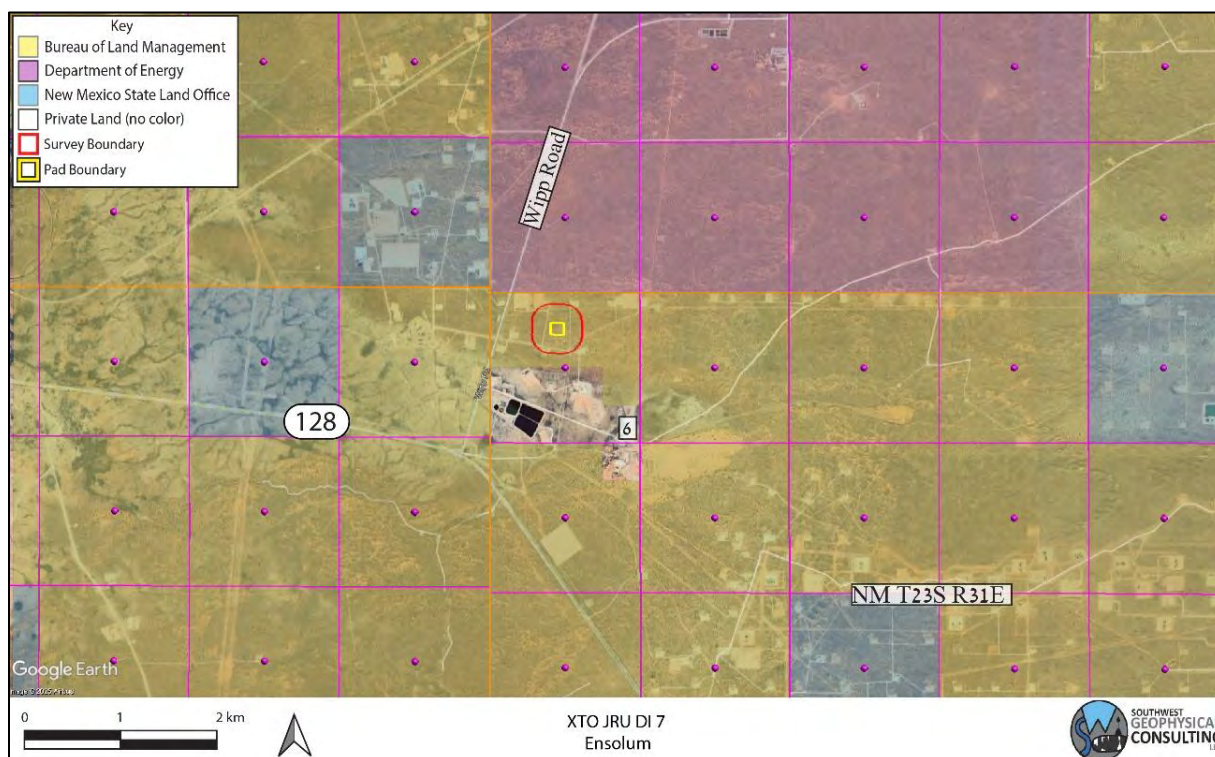


Figure 2: Land ownership and PLSS overview. Please note the pad boundary represents the approximate location provided by the client. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the XJD7 survey is located at an elevation of 1,012 meters (3,320 feet), \pm 4 meters (13.1 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvial piedmont (Qp) and eolian deposits (Qe)^[11] up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)^[12].

The Pru overlies the Permian Salado Formation (Psl – not shown), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface^[12]. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation^[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[14] and the Digital Geologic Map of New Mexico in ARC/INFO Format^[11].

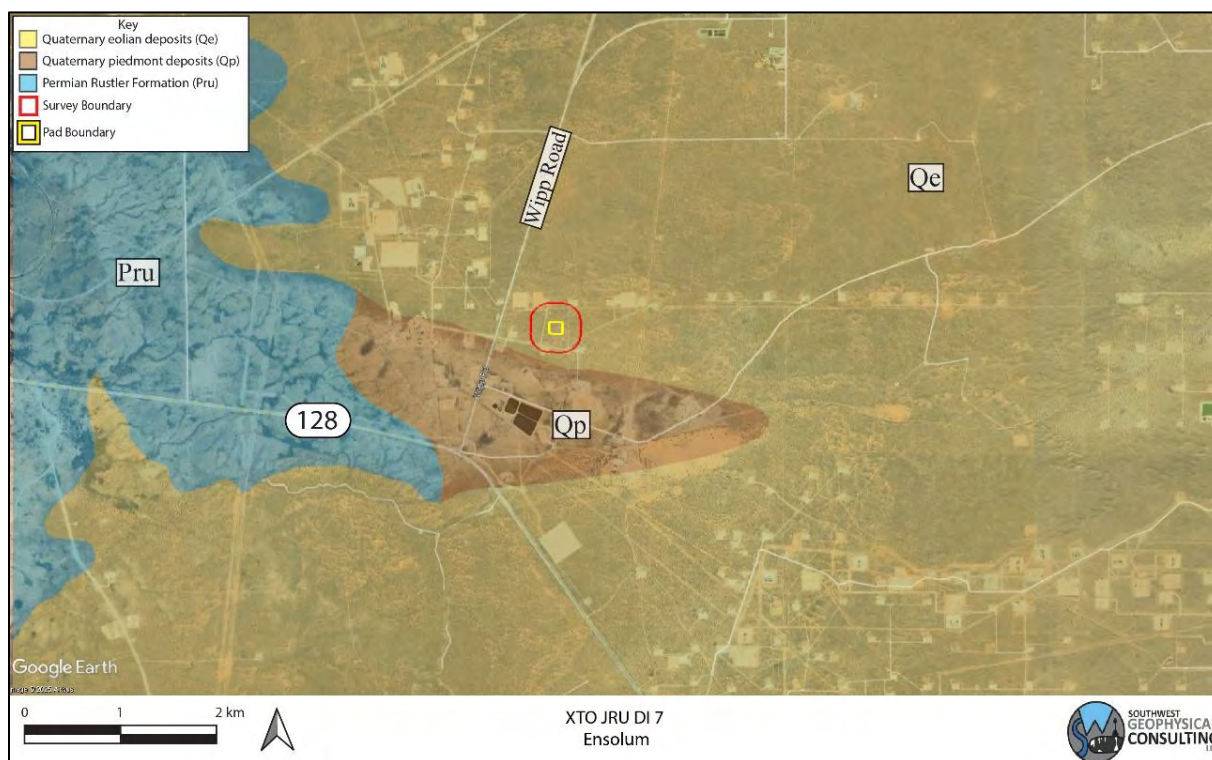


Figure 3: Geology overview. Please note the pad boundary represents the approximate location provided by the client. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance^[1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated April 2, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated November 17, 2025^[15]; the Los Medanos, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary^[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report^[16].

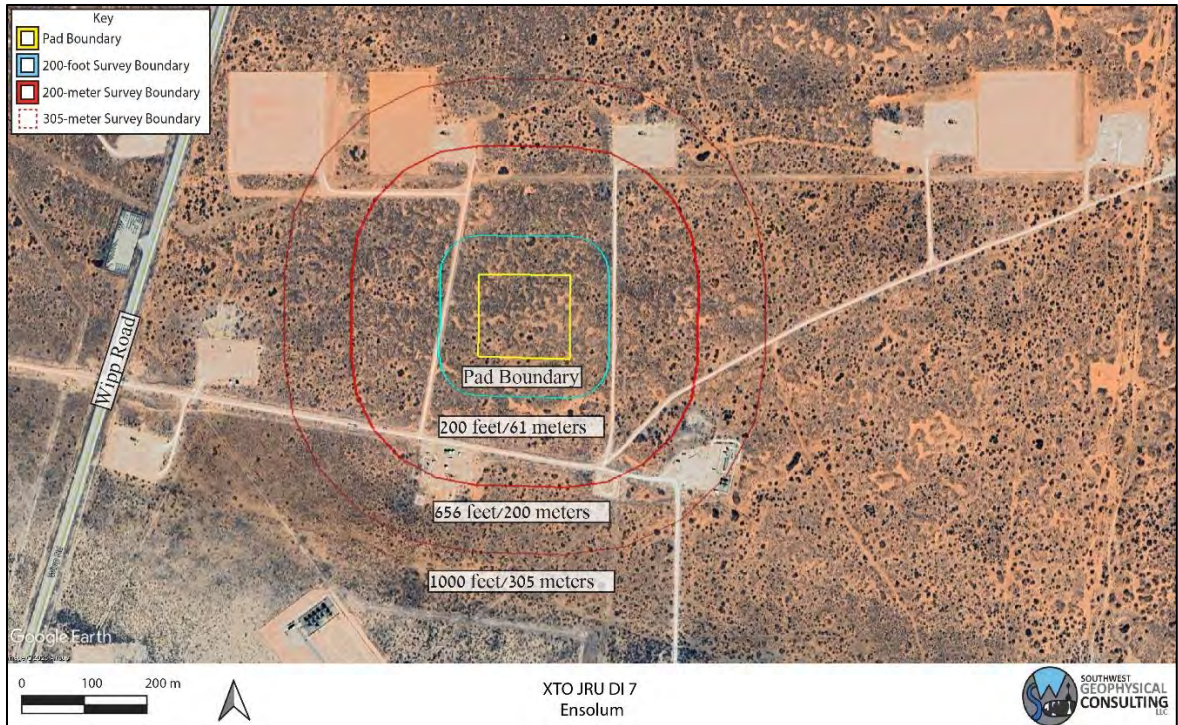


Figure 4: Surface survey overview. Please note the pad boundary is the approximate location provided by the client. Background image credit: Google Earth. Image date: April 2, 2023. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on November 21, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Britt Bommer of Southwest Geophysical Consulting on November 28, 2025.

2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with an 8-channel switchbox, a 56-electrode array of 40-centimeter-long (1.3 feet) stainless-steel electrodes, and a tablet controller were used to image the subsurface. This survey consisted of two resistivity lines consisting of 56 electrodes at 5-meter spacing in a dipole-dipole configuration, resulting in 275-meter-long arrays. Line XJD701 is laid out west to east, while line XJD702 is laid out south to north. (Figure 5, Table 1).

A preconfigured command file was used to run the data collection (DiDi56) which consisted of a dipole-dipole survey. This electrode configuration provided a depth of investigation of up to 55 meters (180 feet) in this location at a resolution of 2.5 to 3.0 meters (8.3 to 9.8 feet) near the surface. A Leica GS18 GPS was used to record electrode locations and elevations. On this survey, the estimated horizontal error mean was 7 cm (2.75 inches) and the estimated vertical error mean was 12 cm (4.7 inches).

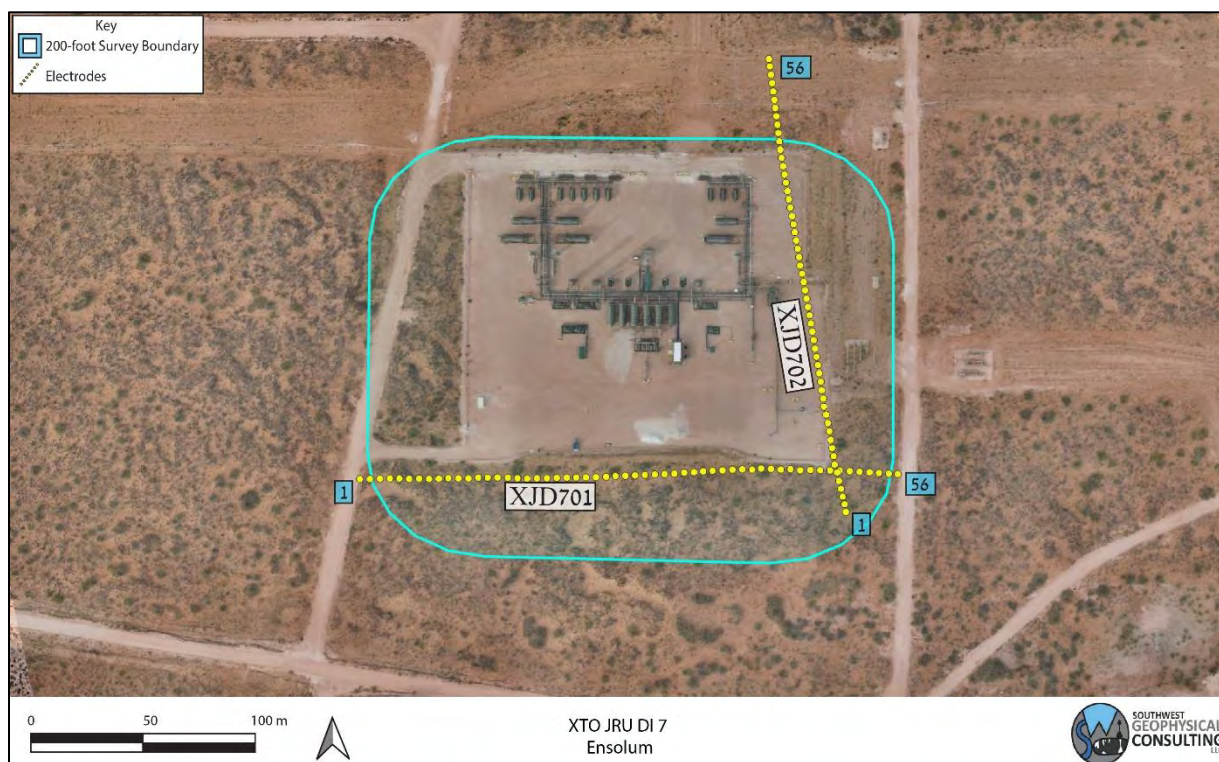


Figure 5: Geophysical survey overview. Two survey lines were conducted with 56 electrodes each at 5-meter spacing (yellow dots denoted with blue numbers). Please note that orthographic imagery is shown as the pad does not yet appear on Google satellite/aerial imagery. The approximate pad boundaries provided by the client were omitted because they do not match the actual pad location. Background image datum: WGS-84.

Table 1 provides basic line data. Detailed information including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files XJD7_ERI_Points.xlsx and ENS-030-20251118_XJD7_Data_Files.kmz.

File Name:	Completed By:	Date:
XJD701.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Aaron Beirl – Field Geologist	12/3/2025
XJD702.kmz		

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of “stable” or “unstable” ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was “average apparent resistivity” and a default inversion setting of “surface,” with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω -m) and a max apparent resistivity set to 100,000 Ω -m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 k Ω -m Min Apparent Resistivity = 0.1 Ω -m

Note: Raw data files (.stg files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .stg files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Aaron Beirl on December 3, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features within 305 meters (1,000 feet)^[1] of the pad boundary (Figure 6).

No springs exist within the 305-meter (1,000-foot)^[1] survey boundary (Figure 6).

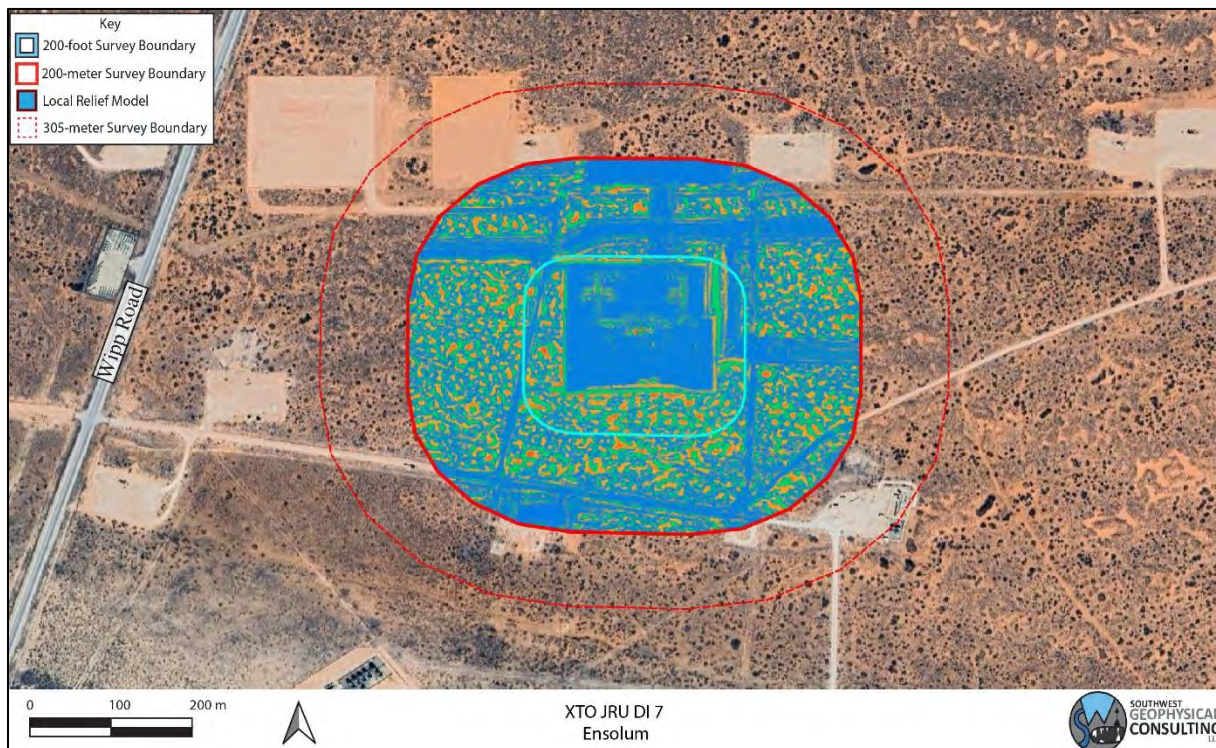


Figure 6: Surface karst survey results. Background image credit: Please note that orthographic imagery is shown as the pad does not yet appear on Google satellite/aerial imagery. The approximate pad boundaries provided by the client were omitted because they do not match the actual pad location. Background image datum: WGS-84.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a well-layered geologic system with resistivities between 14.4 and 300 Ohm-m with occasional areas up to 1,822 Ohm-m (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

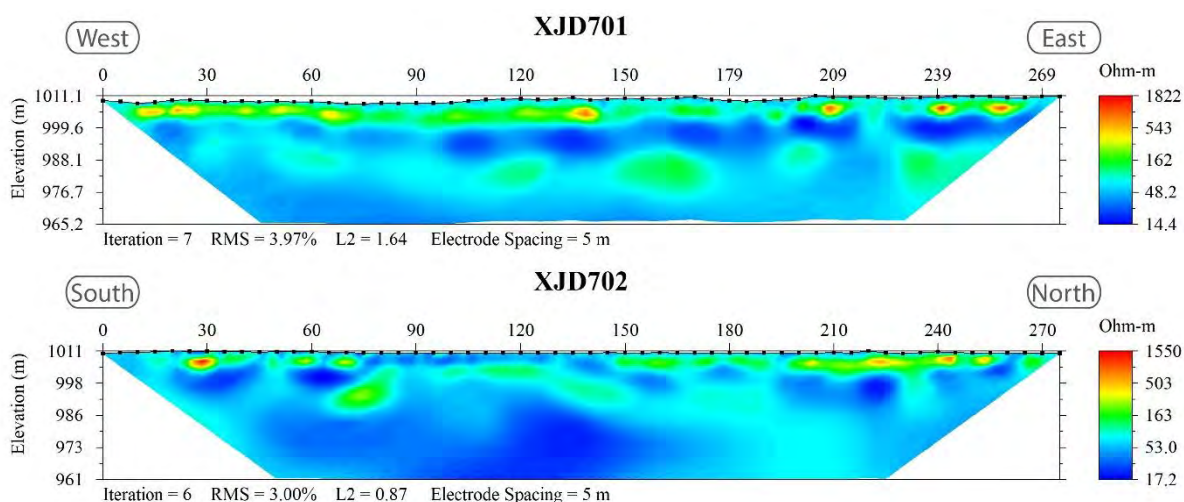


Figure 7: 2D inverted resistivity section. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.

4.0 DISCUSSION

No surface karst features and no anomalies consistent with air-filled subsurface voids are found within the XJD7 survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Areas of higher resistivity (reds, yellows, and greens) near the surface are interpreted as dry gypsite soils and gypsum or dolomite bedrock of the Rustler Formation^[17] (**Figure 7** and **Figure 8**).

Low-resistivity areas between 14.4 – 25 Ohm-m may fluid from a brine release, surface-to-subsurface hydrologic pathways, or a layer of either clays or halite lenses, or moist to saturated layers within the Rustler Formation (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5– 3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

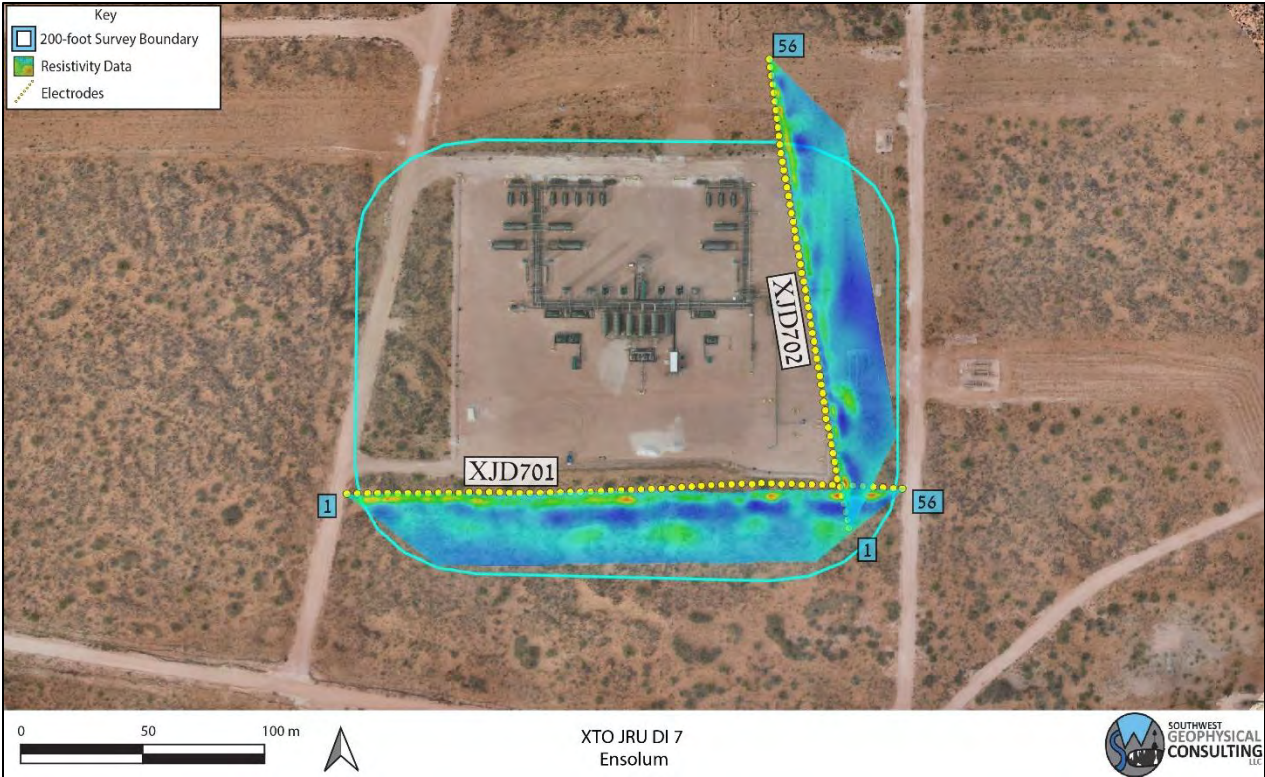


Figure 8: Data overlay. Colored trapezoids are the 2D inverted resistivity lines. Please note that orthographic imagery is shown as the pad does not yet appear on Google satellite/aerial imagery. The approximate pad boundaries provided by the client were omitted because they do not match the actual pad location. Background image datum: WGS-84.

5.0 SUMMARY

- **The XJD7 survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the geophysical survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the geophysical survey lines indicating stable ground in the area of the subsurface investigation.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at blm_nm_karst@blm.gov.

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

7.0 REFERENCES

- 1 Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).
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- 3 Decker, D. & Jorgensen, G. L. *Environmental Karst Surveys White Paper* (Southwest Geophysical Consulting, LLC, 2024).
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- 13 Johnson, K. S. Evaporite Karst in the United States. *Carbonates and Evaporites* **12**, 2-14 (1997).
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- 16 Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).
- 17 Hill, C. A. *Geology of the Delaware Basin, Guadalupe, Apache and Glass Mountains, New Mexico and West Texas*. Vol. 96-39 (Permian Basin Section - SEPM, 1996).

8.0 GLOSSARY OF TERMS

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω -m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation
Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the

	field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist

Southwest Geophysical Consulting, LLC

5117 Fairfax Dr. NW

Albuquerque, NM 87114

dave@swgeophys.com

(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ENS-030-20251118 entitled, “Environmental Karst Study Report, XTO JRU DI 7, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section **2.3 Description of Survey**.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, December 27, 2025.

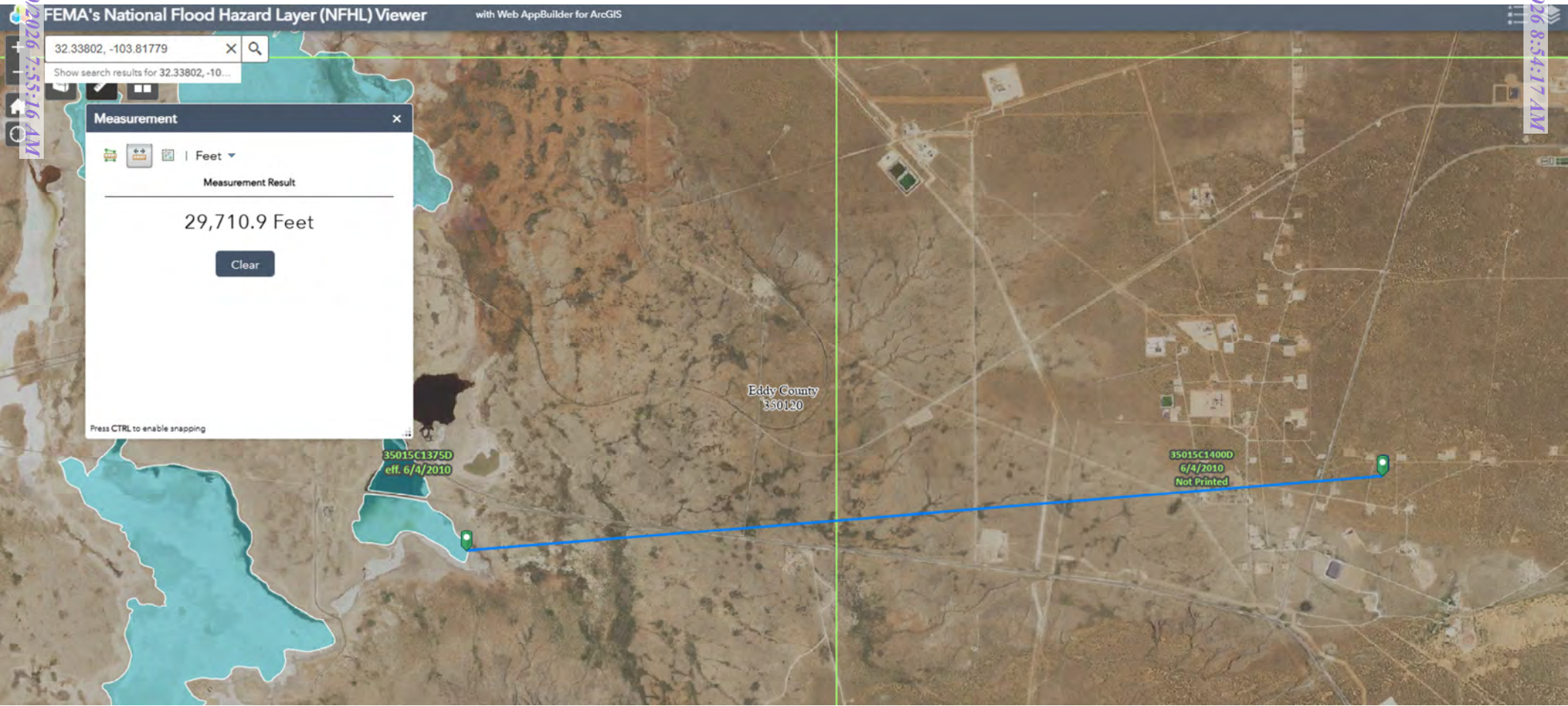


David D. Decker
PhD, CPG-12123



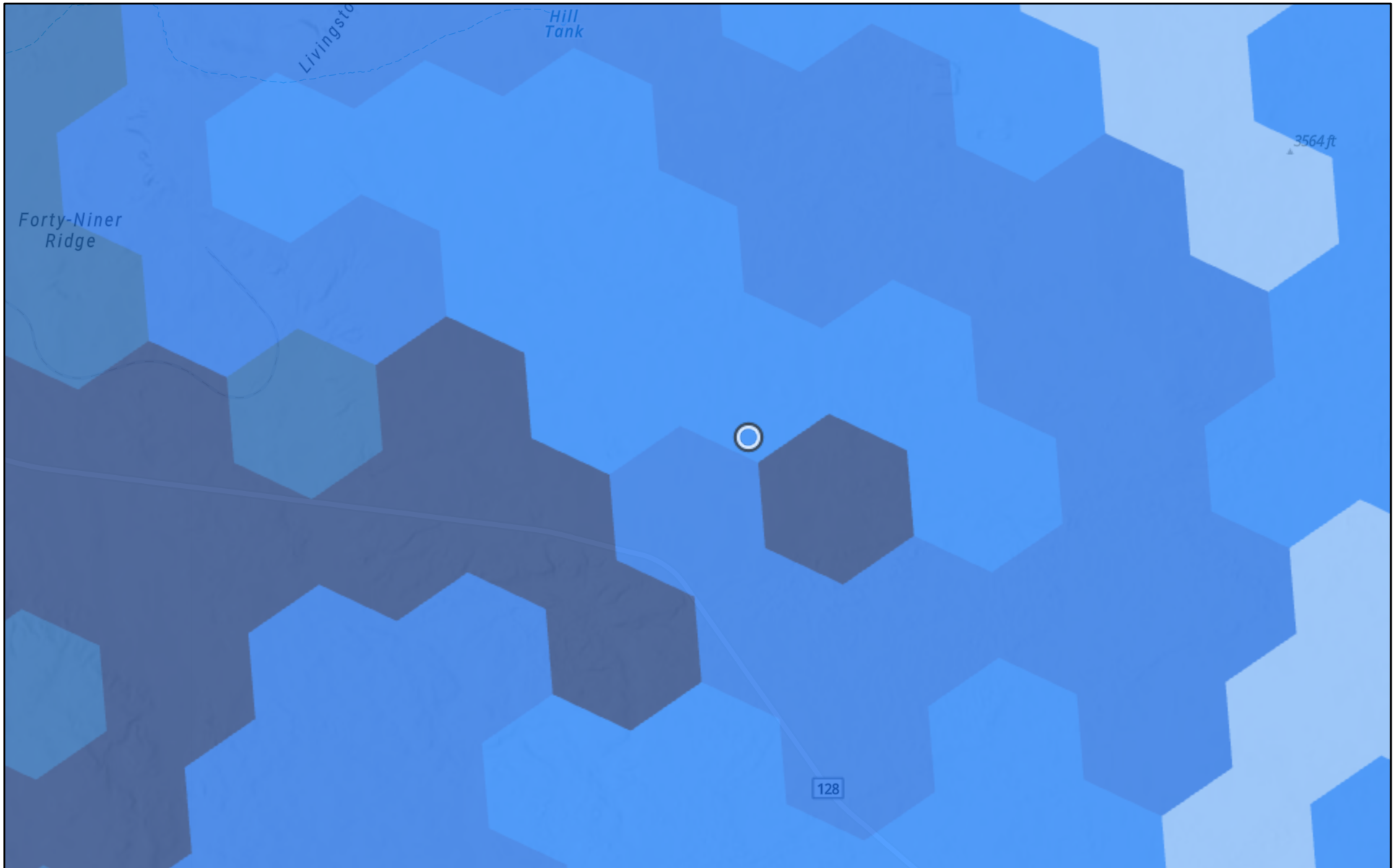
Plate 8. Flood Hazard

29,710.9 ft. From Zone A Floodzone

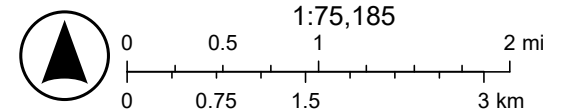
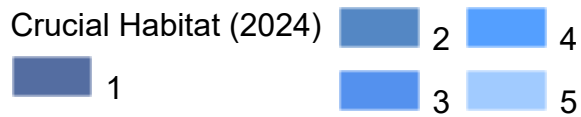


Appendix B. Biological Review

JRU DI 7 CVB_CHAT_Crucial Habitat

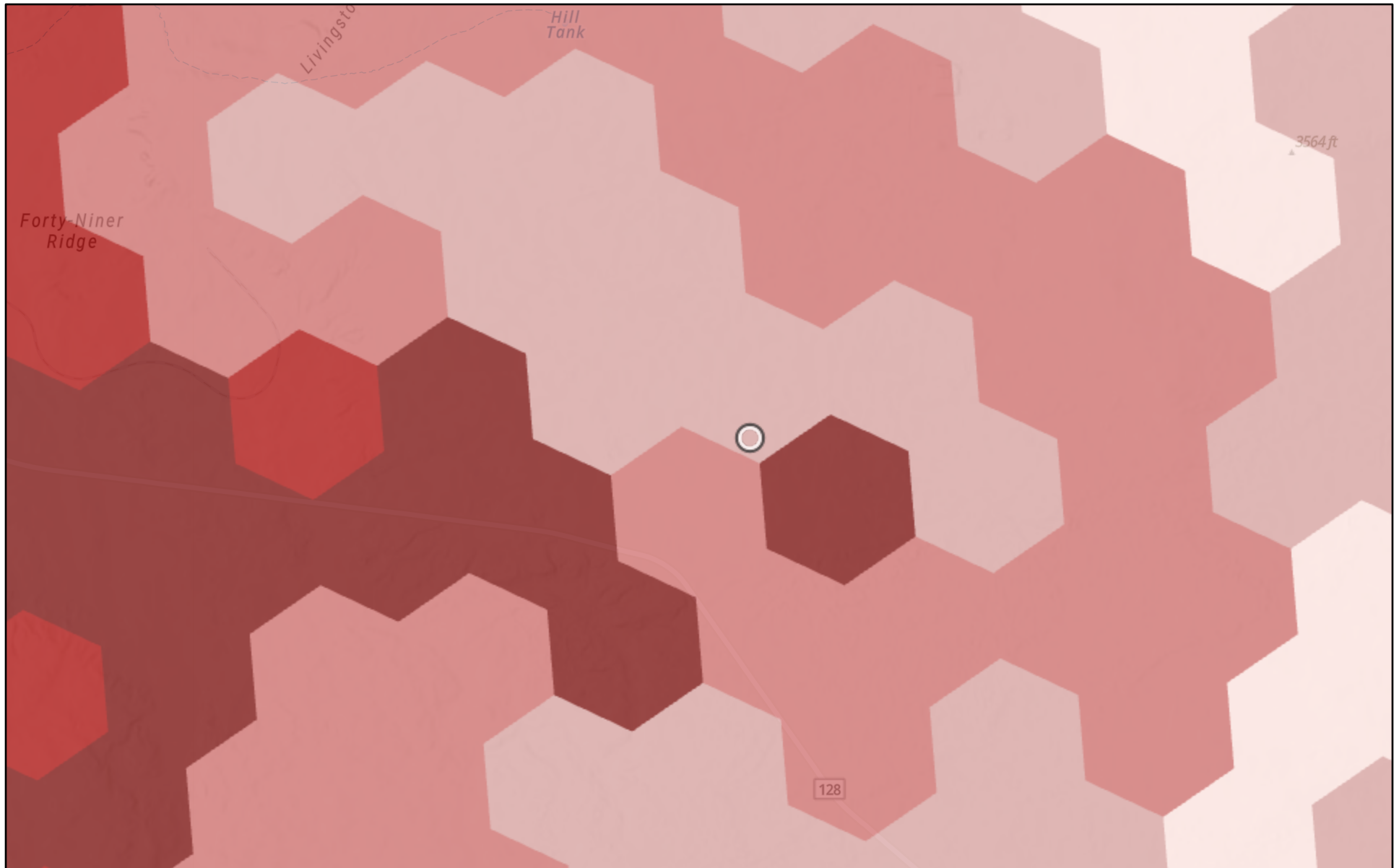


2/3/2026

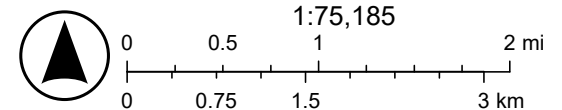
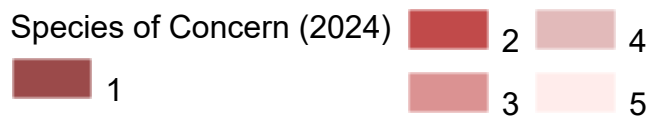


Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

JRU DI 7 CVB_CHAT_Species of Concern



2/3/2026



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna Road Ne
Albuquerque, NM 87113-1001
Phone: (505) 346-2525 Fax: (505) 346-2542

In Reply Refer To:
Project Code: 2026-0044700
Project Name: JRU DI 7 CVB

02/03/2026 18:44:59 UTC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act as amended (16 USC 668-668(c)). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area, and to recommend some conservation measures that can be included in your project design.

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the ESA is to provide a means whereby threatened and endangered species and

the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (NEPA; 42 USC 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at <https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>.

Candidate Species and Other Sensitive Species

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico State agencies. These lists, along with species information, can be found at the following websites.

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program:
<https://www.emnrd.nm.gov/sfd/rare-plants/>

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: nhnm.unm.edu

WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, www.fws.gov/wetlands/Data/Mapper.html, integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

MIGRATORY BIRDS

In addition to responsibilities to protect threatened and endangered species under the ESA, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 CFR 10.12 and 16 USC 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a Federal nexus) or a Bird/Eagle Conservation Plan (when there is no Federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>. We also recommend review of the Birds of Conservation Concern list (<https://www.fws.gov/media/birds-conservation-concern-2021>) to fully evaluate the effects to the birds at your site. This list identifies migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent top conservation priorities for the Service, and are potentially threatened by disturbance, habitat impacts, or other project development activities.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 thereby provides additional protection for both migratory birds and migratory bird habitat. Please visit <https://www.fws.gov/partner/council-conservation-migratory-birds> for information regarding the implementation of Executive Order 13186.

We suggest you contact the New Mexico Department of Game and Fish, and the New Mexico

Project code: 2026-0044700

02/03/2026 18:44:59 UTC

Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State protected and at-risk species fish, wildlife, and plants.

For further consultation with the Service we recommend submitting inquiries or assessments electronically to our incoming email box at nmesfo@fws.gov, where it will be more promptly routed to the appropriate biologist for review.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New Mexico Ecological Services Field Office

2105 Osuna Road Ne

Albuquerque, NM 87113-1001

(505) 346-2525

Project code: 2026-0044700

02/03/2026 18:44:59 UTC

PROJECT SUMMARY

Project Code: 2026-0044700

Project Name: JRU DI 7 CVB

Project Type: General NRDAR/Spill Response/Environmental Contaminants

Project Description: Site remediation

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@32.3373297,-103.81621639217985,14z>



Counties: Eddy County, New Mexico

ENDANGERED SPECIES ACT SPECIES

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2026-0044700

02/03/2026 18:44:59 UTC

BIRDS

NAME	STATUS
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1923 General project design guidelines: https://ipac.ecosphere.fws.gov/project/XTYLL4FPLVHYHPB2RIQ55MXQVE/documents/generated/8928.pdf	Experimental Population, Non- Essential
Piping Plover <i>Charadrius melodus</i> Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6039	Threatened

CLAMS

NAME	STATUS
Texas Hornshell <i>Popenaias popeii</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/919 General project design guidelines: https://ipac.ecosphere.fws.gov/project/XTYLL4FPLVHYHPB2RIQ55MXQVE/documents/generated/9180.pdf	Endangered

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Project code: 2026-0044700

02/03/2026 18:44:59 UTC

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Ethan Phillips
Address: 2418 N Frazier Street
City: Conroe
State: TX
Zip: 77303
Email: ephillips@vertexresource.com
Phone: 9365292913



26A-00086

Ecological Review & Summary

JRU DI 7 CVB

Facility ID: fAPP2505634237

Lease Number: NMNM105511565

Coordinates: 32.337511, -103.817885

Prepared for:

ExxonMobil Production Company

Prepared by:

Vertex Resource Services Inc.

Ethan Phillips

February 6, 2026

Ethan Phillips, B.S. Ecology
BIOLOGIST, REPORTING

Date

The proximity of the site to the closest receiving waterbody, listed in the National Wetland Inventory Mapper as a Riverine Intermittently Flooded Streambed (R4SBJ), is approximately 5,565 feet to the southwest. The closest wetland, Palustrine Emergent Persistent Temporarily Flooded Wetland (PEM1A), is roughly 4,900 feet to the southwest. The site generally slopes in the southern direction; however, due to the distance from the site and the release remaining on pad, the site activities are unlikely to impact nearby waterbodies. The site's primary soil profile includes Kermit-Berino fine sands that are excessively drained with low runoff. The site is within the eolian and piedmont alluvial deposits and known gypsum (and other evaporite deposits) karst features. These environmental factors are accompanied by a high concentration of crucial habitat and New Mexico-listed threatened or endangered species for Eddy County, New Mexico. State-listed species with the potential to occur in Eddy County were reviewed for potential to occur within the project boundaries. Per the United States Fish and Wildlife Service, the site has the potential for the following threatened and endangered species to occur: northern aplomado falcon (*Falco femoralis septentrionalis* – experimental population), piping plover (*Charadrius melodus* – threatened), southwestern willow flycatcher (*Empidonax traillii extimus* – endangered), Texas hornshell (*Popenaias popeii* – endangered), and monarch butterfly (*Danaus plexippus* – proposed threatened). These species were also reviewed for potential to occur within the project boundaries. Due to the release occurring within the disturbance limits of the existing oil and gas pad, it is unlikely that the site activities will impact any federal- or state-protected species during remediation activities. Based on the desktop environmental review, a biological survey is not recommended.

Appendix C. DFRs



Daily Site Visit Report

Site Photos

Viewing Direction: West



Descriptive Photo - 1
Viewing Direction: West
Desc: BH26-01 @ 0-2'
Created: 1/8/2026 10:55:22 AM
Lat:32.337931, Long:-103.818303

BH26-01 @ 0-2'

Viewing Direction: West



Descriptive Photo - 2
Viewing Direction: West
Desc: BH26-02 @ 0-2'
Created: 1/8/2026 11:02:00 AM
Lat:32.338026, Long:-103.818304

BH26-02 @ 0-2'

Viewing Direction: East



Descriptive Photo - 3
Viewing Direction: East
Desc: BH26-03 @ 0-2'
Created: 1/8/2026 11:23:08 AM
Lat:32.338027, Long:-103.818487

BH26-03 @ 0-2'

Viewing Direction: West




Descriptive Photo - 4
Viewing Direction: West
Desc: BH26-08 @ 0-1'
Created: 1/8/2026 11:03:01 AM
Lat:32.338026, Long:-103.818129

BH26-08 @ 0-1'



Daily Site Visit Report

Viewing Direction: East
 <p><small>Descriptive Photo: 5 Viewing Direction: East Case: BH26-03 - 3' After viewing field screen results it was determined that BH26-03 Created: 1/9/2026 10:18:11 AM Lat:32.338069, Long: -103.110002</small></p>
<p>BH26-03 @ 3' After viewing field screen results it was determined that BH26-03 needed to be deeper</p>



Daily Site Visit Report

Site Photos

Viewing Direction: East



Describe Photo - 6
Viewing Direction: East
Date: 2/20/26 09:01
Created: 1/9/2026 12:28:20 AM
Lat: 32.337026, Long: 103.818375

BH26-06 @ 0-1'

Viewing Direction: East



Describe Photo - 4
Viewing Direction: East
Date: 2/20/26 09:01
Created: 1/9/2026 12:28:20 AM
Lat: 32.337026, Long: 103.818375

BH26-04 @ 0-2'

Viewing Direction: East



Describe Photo - 5
Viewing Direction: East
Date: 2/20/26 09:01
Created: 1/9/2026 12:28:20 AM
Lat: 32.337026, Long: 103.818375

BH26-05 @ 0-1'

Viewing Direction: South

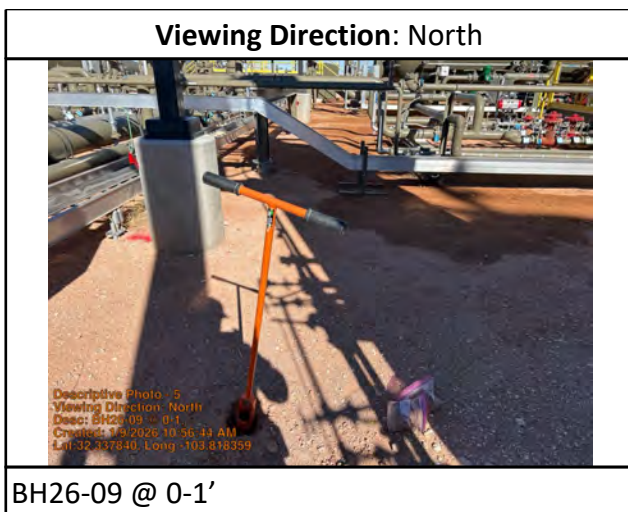


Describe Photo - 4
Viewing Direction: South
Date: 2/20/26 09:01
Created: 1/9/2026 10:51:42 AM
Lat: 32.338196, Long: 103.818375

BH26-07 @ 0-1'



Daily Site Visit Report





Daily Site Visit Report

Site Photos

Viewing Direction: East



BH26-05 @ 0-1'
Stepped out and additional 5'



Daily Site Visit Report

Site Photos

Viewing Direction: South



Description Photo - 1
Viewing Direction: South
Desc: Hand dig between Easter lines where there is no space to dig
Created: 1/15/2026 11:08:16 AM
Lat: 32.38100, Long: -103.16345

Hand dig between Easter lines where there is space

Viewing Direction: South



Description Photo - 2
Viewing Direction: South
Desc: Defer lines where there is no space to dig
Created: 1/15/2026 11:06:29 AM
Lat: 32.38100, Long: -103.16345

Defer lines where there is no space to dig

Viewing Direction: South



Description Photo - 3
Viewing Direction: South
Desc: Hydrovac not allowed by high pressure line
Created: 1/15/2026 11:07:04 AM
Lat: 32.38100, Long: -103.16345

Hydrovac not allowed by high pressure lines

Viewing Direction: East



Description Photo - 4
Viewing Direction: East
Desc: 2' away from equipment and slope into excavation
Created: 1/15/2026 11:07:51 AM
Lat: 32.38100, Long: -103.16345

2' away from equipment and slope into excavation



Daily Site Visit Report

Viewing Direction: East

Descriptive Photo - 5
Viewing Direction: East
Desc: Mechanical excavation allowed here
Created: 1/16/2026 11:08:11 AM
Lat:32.336083, Long:-103.818593

Mechanical excavation allowed here

Viewing Direction: East

Descriptive Photo - 6
Viewing Direction: East
Desc: Hand dig between compressors that are closer
Can use assurance from sister
Created: 1/16/2026 11:09:37 AM
Lat:32.337979, Long:-103.818591

Hand dig between compressors that are closer
Can use assurance from sister for hauling materials

Viewing Direction: East

Descriptive Photo - 7
Viewing Direction: East
Desc: Excavate one side of compressor/ backfill b
Created: 1/16/2026 11:21:59 AM
Lat:32.337381, Long:-103.818500

Excavate one side of compressor/ backfill before excavation begins on opposite side



Daily Field Log
Site: JRU DI 7 CVB
Client: ExxonMobil

01/29/2026

Location: Default Site Location

By: Riley Arnold

Weather	Chilly	Contractor	
Staff On-site	Riley Arnold	Contractor Crew	
Staff From Time	09:30	Equipment On Site	Hand tools
Tailgate meeting conducted	NA	Incident ID Number	nAPP2535634554

Work Summary:

Delineate deferral area

Time	Observations
------	--------------

09:53:19	Travel to site/ safety paperwork
----------	----------------------------------

09:55:00	BH26-10 through BH26-12 were collected and field screened to define deferral area
----------	-----------------------------------------------------------------------------------

11:34:14	Samples were jarred and labeled/ coc's were created
----------	-----------------------------------------------------

Pictures/Attachments

Date: 1/29/2026
 Time: 10:35
 Notes: BH26-11 @ 0.5'
 BH26-11 @ 1'
 BH26-11 @ 2'
 Latitude: 32.33796666666667
 Longitude: -103.81839722222222
 Direction: S

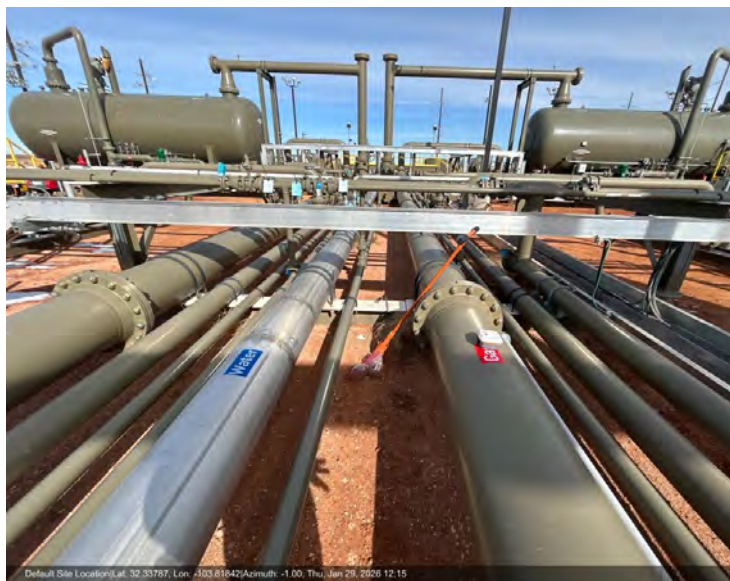




Daily Field Log
Site: JRU DI 7 CVB
Client: ExxonMobil

Pictures/Attachments

Date: 1/29/2026
Time: 10:43
Notes: BH26-12 @ 0.5'
BH26-12 @ 1'
Latitude: 32.33786944444444
Longitude: -103.81841944444444
Direction: W



Default Site Location|Lat: 32.33787, Lon: -103.81842|Azimuth: -1.00, Thu, Jan 29, 2026 12:15

Date: 1/29/2026
Time: 12:15
Notes:
Latitude: 32.33708888888889
Longitude: -103.81838055555555
Direction: W



Default Site Location|Lat: 32.33709, Lon: -103.81838|Azimuth: -1.00, Thu, Jan 29, 2026 12:15



Daily Field Log
Site: JRU DI 7 CVB
Client: ExxonMobil

Pictures/Attachments

Date: 1/29/2026
Time: 10:25
Notes: BH26-10 @ 0.5'
BH26-10 @ 1'
Latitude: 32.33792222222225
Longitude: -103.81828333333333
Direction: W





Daily Field Log
Site: JRU DI 7 CVB
Client: ExxonMobil

02/02/2026

Location: Default Site Location

By: Riley Arnold

Weather	Clear	Contractor	Tex Mex Construction
Staff On-site	Riley Arnold	Contractor Crew	
Staff From Time		Equipment On Site	Hand tools
Tailgate meeting conducted	Yes	Incident ID Number	nAPP2535634554

Work Summary:

Hand dig excavation zone

Time Observations

07:58:05	Travel to site/ safety paperwork
07:58:27	Excavation zones marked in paint
07:58:49	Excavation crew waited for permit
13:03:30	Excavation crew did not have valid permit excavation will begin 2/03/26

Pictures/Attachments

Date: 2/2/2026
 Time: 13:02
 Notes: Excavation zones marked
 Latitude: 32.33716944444445
 Longitude: -103.819
 Direction: E



Default Site Location(Alt: 32.33717, Lon: -103.81900)Azimuth: -1.00, Mon, Feb 2, 2026 13:03

Appendix D. Laboratory Certificates of Analyses



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

January 16, 2026

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD, NM 88220

RE: JRU DI 7 CVB

Enclosed are the results of analyses for samples received by the laboratory on 01/12/26 12:25.

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 "Celey 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:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 01 @ 0' (H260160-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	33.6	2.00	01/14/2026	ND	1.82	91.1	2.00	3.33	QM-07, QR-03
Toluene*	184	2.00	01/14/2026	ND	1.79	89.5	2.00	4.29	QM-07, QR-03
Ethylbenzene*	87.1	2.00	01/14/2026	ND	1.91	95.3	2.00	3.74	QM-07, QR-03
Total Xylenes*	417	6.00	01/14/2026	ND	5.72	95.3	6.00	4.18	QM-07
Total BTEX	722	12.0	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	384	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	7240	50.0	01/13/2026	ND	197	98.3	200	1.28		
DRO >C10-C28*	22400	50.0	01/13/2026	ND	225	112	200	7.61		
EXT DRO >C28-C36	2720	50.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 343 % 52.4-130

Surrogate: 1-Chlorooctadecane 508 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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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: 01/12/2026
 Reported: 01/16/2026
 Project Name: JRU DI 7 CVB
 Project Number: 26A - 00086
 Project Location: EXXON MOBIL

Sampling Date: 01/08/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH26 - 01 @ 1' (H260160-02)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.595	0.050	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	6.78	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	4.74	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	25.7	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	37.9	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 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	128	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	473	10.0	01/13/2026	ND	197	98.3	200	1.28	
DRO >C10-C28*	2010	10.0	01/13/2026	ND	225	112	200	7.61	
EXT DRO >C28-C36	278	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 106 % 52.4-130

Surrogate: 1-Chlorooctadecane 117 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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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:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 01 @ 2' (H260160-03)

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	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	0.131	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	0.235	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	0.432	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	0.798	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.4 % 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	48.0	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	197	98.3	200	1.28	
DRO >C10-C28*	70.6	10.0	01/13/2026	ND	225	112	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 93.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.8 % 39.9-141

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*=Accredited Analyte

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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:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 02 @ 0' (H260160-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.2	1.00	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	99.0	1.00	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	55.1	1.00	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	250	3.00	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	417	6.00	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	640	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	5680	50.0	01/13/2026	ND	197	98.3	200	1.28		
DRO >C10-C28*	28500	50.0	01/13/2026	ND	225	112	200	7.61		
EXT DRO >C28-C36	3440	50.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 352 % 52.4-130

Surrogate: 1-Chlorooctadecane 646 % 39.9-141

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Analytical Results For:

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

Received:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 02 @ 1' (H260160-05)

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	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	0.157	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	<0.300	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.0 % 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	96.0	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	197	98.3	200	1.28	
DRO >C10-C28*	71.8	10.0	01/13/2026	ND	225	112	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 68.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 69.9 % 39.9-141

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Analytical Results For:

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

Received:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 02 @ 2' (H260160-06)

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	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	0.061	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	0.202	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	<0.300	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.9 % 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	32.0	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	197	98.3	200	1.28	
DRO >C10-C28*	19.6	10.0	01/13/2026	ND	225	112	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 66.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 65.8 % 39.9-141

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Analytical Results For:

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

Received:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 03 @ 0' (H260160-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	31.4	1.00	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	127	1.00	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	54.9	1.00	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	255	3.00	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	467	6.00	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	144	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4160	50.0	01/13/2026	ND	197	98.3	200	1.28		
DRO >C10-C28*	13900	50.0	01/13/2026	ND	225	112	200	7.61		
EXT DRO >C28-C36	1900	50.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 254 % 52.4-130

Surrogate: 1-Chlorooctadecane 303 % 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:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 03 @ 1' (H260160-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.9	0.500	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	81.1	0.500	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	39.7	0.500	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	174	1.50	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	305	3.00	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	336	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2830	10.0	01/13/2026	ND	207	104	200	0.983		
DRO >C10-C28*	6140	10.0	01/13/2026	ND	220	110	200	1.01	QM-07	
EXT DRO >C28-C36	684	10.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 166 % 52.4-130

Surrogate: 1-Chlorooctadecane 122 % 39.9-141

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Analytical Results For:

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

Received:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 03 @ 2' (H260160-09)

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	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	0.079	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	0.141	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	1.05	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	1.27	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 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	48.0	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.8	10.0	01/13/2026	ND	207	104	200	0.983	
DRO >C10-C28*	46.2	10.0	01/13/2026	ND	220	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 85.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.7 % 39.9-141

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Analytical Results For:

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

Received: 01/12/2026
 Reported: 01/16/2026
 Project Name: JRU DI 7 CVB
 Project Number: 26A - 00086
 Project Location: EXXON MOBIL

Sampling Date: 01/08/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH26 - 03 @ 3' (H260160-10)

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	01/14/2026	ND	1.82	91.1	2.00	3.33		
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74		
Total Xylenes*	0.301	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18		
Total BTEX	0.301	0.300	01/14/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 80.6 % 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	<16.0	16.0	01/12/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983		
DRO >C10-C28*	61.4	10.0	01/13/2026	ND	220	110	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 96.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.0 % 39.9-141

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Analytical Results For:

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

Received:	01/12/2026	Sampling Date:	01/09/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 04 @ 0' (H260160-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.26	1.00	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	56.2	1.00	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	62.1	1.00	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	291	3.00	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	412	6.00	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	576	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	6680	50.0	01/14/2026	ND	207	104	200	0.983		
DRO >C10-C28*	38600	50.0	01/14/2026	ND	220	110	200	1.01		
EXT DRO >C28-C36	4610	50.0	01/14/2026	ND						

Surrogate: 1-Chlorooctane 480 % 52.4-130

Surrogate: 1-Chlorooctadecane 594 % 39.9-141

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Analytical Results For:

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

Received: 01/12/2026
 Reported: 01/16/2026
 Project Name: JRU DI 7 CVB
 Project Number: 26A - 00086
 Project Location: EXXON MOBIL

Sampling Date: 01/09/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH26 - 04 @ 1' (H260160-12)

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	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	0.400	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	0.400	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.8 % 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	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983	
DRO >C10-C28*	173	10.0	01/13/2026	ND	220	110	200	1.01	
EXT DRO >C28-C36	15.3	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 92.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.7 % 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:	01/12/2026	Sampling Date:	01/09/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 04 @ 2' (H260160-13)

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	01/14/2026	ND	1.82	91.1	2.00	3.33		
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74		
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18		
Total BTEX	<0.300	0.300	01/14/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 77.7 % 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	32.0	16.0	01/12/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983		
DRO >C10-C28*	<10.0	10.0	01/13/2026	ND	220	110	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 98.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.5 % 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:	01/12/2026	Sampling Date:	01/09/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 06 @ 0' (H260160-14)

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	01/14/2026	ND	1.82	91.1	2.00	3.33		
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74		
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18		
Total BTEX	<0.300	0.300	01/14/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 80.0 % 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	160	16.0	01/12/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983		
DRO >C10-C28*	<10.0	10.0	01/13/2026	ND	220	110	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 91.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.1 % 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: 01/12/2026
 Reported: 01/16/2026
 Project Name: JRU DI 7 CVB
 Project Number: 26A - 00086
 Project Location: EXXON MOBIL

Sampling Date: 01/09/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH26 - 06 @ 1' (H260160-15)

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	01/14/2026	ND	1.82	91.1	2.00	3.33		
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74		
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18		
Total BTEX	<0.300	0.300	01/14/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 78.6 % 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	192	16.0	01/12/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983		
DRO >C10-C28*	<10.0	10.0	01/13/2026	ND	220	110	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 93.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.6 % 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:	01/12/2026	Sampling Date:	01/09/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 07 @ 0' (H260160-16)

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	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	<0.300	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 79.5 % 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	192	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983	
DRO >C10-C28*	<10.0	10.0	01/13/2026	ND	220	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 86.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.8 % 39.9-141

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Analytical Results For:

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

Received: 01/12/2026
 Reported: 01/16/2026
 Project Name: JRU DI 7 CVB
 Project Number: 26A - 00086
 Project Location: EXXON MOBIL

Sampling Date: 01/09/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH26 - 07 @ 1' (H260160-17)

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	01/14/2026	ND	1.82	91.1	2.00	3.33		
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74		
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18		
Total BTEX	<0.300	0.300	01/14/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.4 % 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	320	16.0	01/12/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983		
DRO >C10-C28*	<10.0	10.0	01/13/2026	ND	220	110	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 92.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.7 % 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: 01/12/2026
 Reported: 01/16/2026
 Project Name: JRU DI 7 CVB
 Project Number: 26A - 00086
 Project Location: EXXON MOBIL

Sampling Date: 01/09/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH26 - 09 @ 0' (H260160-18)

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	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	0.066	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	<0.300	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.0 % 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	240	16.0	01/12/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983	
DRO >C10-C28*	<10.0	10.0	01/13/2026	ND	220	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 74.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.0 % 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: 01/12/2026
 Reported: 01/16/2026
 Project Name: JRU DI 7 CVB
 Project Number: 26A - 00086
 Project Location: EXXON MOBIL

Sampling Date: 01/09/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH26 - 09 @ 1' (H260160-19)

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	01/14/2026	ND	1.82	91.1	2.00	3.33	
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29	
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74	
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18	
Total BTEX	<0.300	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 78.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/13/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983	
DRO >C10-C28*	<10.0	10.0	01/13/2026	ND	220	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 79.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.8 % 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:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 08 @ 0' (H260160-20)

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	01/14/2026	ND	1.82	91.1	2.00	3.33		
Toluene*	<0.050	0.050	01/14/2026	ND	1.79	89.5	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.91	95.3	2.00	3.74		
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.72	95.3	6.00	4.18		
Total BTEX	<0.300	0.300	01/14/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.8 % 70.4-141

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	01/13/2026	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: JF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983		
DRO >C10-C28*	<10.0	10.0	01/13/2026	ND	220	110	200	1.01		
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND						

Surrogate: 1-Chlorooctane 87.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.8 % 39.9-141

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Analytical Results For:

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

Received:	01/12/2026	Sampling Date:	01/08/2026
Reported:	01/16/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 08 @ 1' (H260160-21)

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	01/14/2026	ND	1.86	93.1	2.00	2.65	
Toluene*	<0.050	0.050	01/14/2026	ND	1.98	98.8	2.00	3.05	
Ethylbenzene*	<0.050	0.050	01/14/2026	ND	1.99	99.4	2.00	2.65	
Total Xylenes*	<0.150	0.150	01/14/2026	ND	5.90	98.3	6.00	2.50	
Total BTEX	<0.300	0.300	01/14/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/13/2026	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2026	ND	207	104	200	0.983	
DRO >C10-C28*	<10.0	10.0	01/13/2026	ND	220	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/13/2026	ND					

Surrogate: 1-Chlorooctane 93.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.3 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource		P.O. #: 2256891001		ANALYSIS REQUEST														
Project Manager: Chad Hensley		Company: Exxon/Mobil																
Address: 3101 Boyd drive		Attn: Dale Woodall																
City: Carlsbad		Address: 514 E Greene St																
Phone #: 575-200-6167		City: Carlsbad																
Fax #: 		State: NM zip: 88220																
Project #: 26A-00086		Project Owner:																
Project Name: JRU DI 7 CVB		State: NM zip: 88220																
Project Location:		Phone #:																
Sampler Name: Riley Arnold		Fax #:																
FOR LAB USE ONLY		BILL TO																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	Chloride							
<i>Halobled</i>	BH26-0820'	G-1	11	SOIL	X	ICE / COOL	X	01.08.25	12:20	X	X	X						
	BH26-0821'		11	SOIL	X	ICE / COOL	X	01.08.25	12:30	X	X	X						

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Relinquished By: *[Signature]* Date: **1-13-26** Received By: *[Signature]* Date: **1-23-26**

Delivered By: (Circle One) Observed Temp. °C **3.4** Corrected Temp. °C **3.5** Sample Condition Intact Cool Intact Yes No Yes No

Checked By: *[Signature]* (Initials) **AO**

Remarks: **GFCM: 48605000**
Incident ID: NAPP2535634554
04034015-222

Verbal Result: Yes No Add'l Phone #: **48605000**

Standard Bacteria (only) Sample Condition Cool Intact Yes No Yes No

Thermometer ID #140 **10.10** Corrected Temp. °C **3.5**

Standard Bacteria (only) Sample Condition Cool Intact Yes No Yes No

Thermometer ID #140 **10.10** Corrected Temp. °C **3.5**

FORM 000 REV 06/01/25

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



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

January 19, 2026

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD, NM 88220

RE: JRU DI 7 CVB

Enclosed are the results of analyses for samples received by the laboratory on 01/13/26 14:15.

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 "Celey 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:	01/13/2026	Sampling Date:	01/12/2026
Reported:	01/19/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 05 @ 0' (H260184-01)

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	01/15/2026	ND	1.84	92.0	2.00	3.98		
Toluene*	<0.050	0.050	01/15/2026	ND	1.75	87.6	2.00	0.724		
Ethylbenzene*	<0.050	0.050	01/15/2026	ND	1.93	96.4	2.00	5.51		
Total Xylenes*	<0.150	0.150	01/15/2026	ND	5.76	96.0	6.00	4.51		
Total BTEX	<0.300	0.300	01/15/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 78.3 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/14/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/14/2026	ND	196	98.2	200	1.73		
DRO >C10-C28*	<10.0	10.0	01/14/2026	ND	190	94.8	200	0.926		
EXT DRO >C28-C36	<10.0	10.0	01/14/2026	ND						

Surrogate: 1-Chlorooctane 80.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.2 % 39.9-141

Cardinal Laboratories

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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: 01/13/2026
 Reported: 01/19/2026
 Project Name: JRU DI 7 CVB
 Project Number: 26A - 00086
 Project Location: EXXON MOBIL

Sampling Date: 01/12/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH26 - 05 @ 1' (H260184-02)

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	01/15/2026	ND	1.84	92.0	2.00	3.98		
Toluene*	<0.050	0.050	01/15/2026	ND	1.75	87.6	2.00	0.724		
Ethylbenzene*	<0.050	0.050	01/15/2026	ND	1.93	96.4	2.00	5.51		
Total Xylenes*	<0.150	0.150	01/15/2026	ND	5.76	96.0	6.00	4.51		
Total BTEX	<0.300	0.300	01/15/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 74.6 % 70.4-141

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	01/14/2026	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/14/2026	ND	196	98.2	200	1.73		
DRO >C10-C28*	<10.0	10.0	01/14/2026	ND	190	94.8	200	0.926		
EXT DRO >C28-C36	<10.0	10.0	01/14/2026	ND						

Surrogate: 1-Chlorooctane 83.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.9 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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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

Company Name: Vertex Resource Project Manager: Chad Hensley Address: 3101 Boyd drive City: Carlsbad State: NM zip: 88220 Phone #: 575-200-6167 Fax #: _____ Project #: 26A-00086 Project Owner: _____ Project Name: SRU DT 7 CV8 Project Location: _____ Sampler Name: Riley Arnold FOR LAB USE ONLY		BILL TO P.O. #: 2256891001 Company: Exxon/Mobil Attn: Dale Woodall Address: 514 E Green St City: Carlsbad State: NM zip: 88220 Phone #: _____ Fax #: _____	
Lab I.D. AH20184 Sample I.D. BH26-05 2 0' BH26-05 2 1'	(G)RAB OR (C)OMP # CONTAINERS G-1 G-1 G-1	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	PRESERV ACID/BASE ICE / COOL OTHER
	DATE TIME 1.12.25 10:00 1.12.25 10:10	ANALYSIS REQUEST BTEX TPH Chloride	

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Relinquished By: *[Signature]* Date: **1.13.26** Time: **1415**
 Received By: *[Signature]* Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Delivered By: (Circle One) Observed Temp. °C Corrected Temp. °C
 Sampler - UPS - Bus - Other: _____
 Corrected Temp. °C **1.10**
 Sample Condition Cool Intact
 Yes No No No
 CHECKED BY: *[Signature]* (Initials)
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: **chensley@vertexresource.com**
arnold@vertexresource.com
 REMARKS: **GFCM: 48605000**
Incident ID: NAPP 2535634554
 Turnaround Time: _____ Standard Rush
 Thermometer ID #140 Correction Factor **FD 1.2**
 Bacteria (only) Sample Condition Cool Intact
 Yes No Yes No
 Corrected Temp. °C _____

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

February 05, 2026

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD, NM 88220

RE: JRU DI 7 CVB

Enclosed are the results of analyses for samples received by the laboratory on 02/02/26 12:27.

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 "Celey 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:	02/02/2026	Sampling Date:	01/29/2026
Reported:	02/05/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 10 @ 0.5' (H260557-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2026	ND	2.01	101	2.00	0.415	
Toluene*	<0.050	0.050	02/03/2026	ND	1.88	94.0	2.00	0.604	
Ethylbenzene*	<0.050	0.050	02/03/2026	ND	1.86	93.2	2.00	0.412	
Total Xylenes*	<0.150	0.150	02/03/2026	ND	5.51	91.8	6.00	0.413	
Total BTEX	<0.300	0.300	02/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2026	ND	216	108	200	0.255	
DRO >C10-C28*	<10.0	10.0	02/02/2026	ND	225	113	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/02/2026	ND					

Surrogate: 1-Chlorooctane 107 % 52.4-130

Surrogate: 1-Chlorooctadecane 117 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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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: 02/02/2026
 Reported: 02/05/2026
 Project Name: JRU DI 7 CVB
 Project Number: 26A - 00086
 Project Location: EXXON MOBIL

Sampling Date: 01/29/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH26 - 10 @ 1' (H260557-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2026	ND	2.01	101	2.00	0.415	
Toluene*	<0.050	0.050	02/03/2026	ND	1.88	94.0	2.00	0.604	
Ethylbenzene*	<0.050	0.050	02/03/2026	ND	1.86	93.2	2.00	0.412	
Total Xylenes*	<0.150	0.150	02/03/2026	ND	5.51	91.8	6.00	0.413	
Total BTEX	<0.300	0.300	02/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	02/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2026	ND	216	108	200	0.255	
DRO >C10-C28*	<10.0	10.0	02/02/2026	ND	225	113	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/02/2026	ND					

Surrogate: 1-Chlorooctane 109 % 52.4-130

Surrogate: 1-Chlorooctadecane 112 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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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:	02/02/2026	Sampling Date:	01/29/2026
Reported:	02/05/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 11 @ 0.5' (H260557-03)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	4.89	1.00	02/03/2026	ND	2.01	101	2.00	0.415	GC-NC1	
Toluene*	139	1.00	02/03/2026	ND	1.88	94.0	2.00	0.604		
Ethylbenzene*	61.7	1.00	02/03/2026	ND	1.86	93.2	2.00	0.412		
Total Xylenes*	346	3.00	02/03/2026	ND	5.51	91.8	6.00	0.413		
Total BTEX	552	6.00	02/03/2026	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 158 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	02/02/2026	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: JF				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4760	50.0	02/03/2026	ND	216	108	200	0.255		
DRO >C10-C28*	15000	50.0	02/03/2026	ND	225	113	200	1.15		
EXT DRO >C28-C36	1900	50.0	02/03/2026	ND						

Surrogate: 1-Chlorooctane 296 % 52.4-130

Surrogate: 1-Chlorooctadecane 235 % 39.9-141

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Analytical Results For:

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

Received:	02/02/2026	Sampling Date:	01/29/2026
Reported:	02/05/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 11 @ 1' (H260557-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2026	ND	2.01	101	2.00	0.415	
Toluene*	0.133	0.050	02/03/2026	ND	1.88	94.0	2.00	0.604	
Ethylbenzene*	0.113	0.050	02/03/2026	ND	1.86	93.2	2.00	0.412	
Total Xylenes*	0.997	0.150	02/03/2026	ND	5.51	91.8	6.00	0.413	
Total BTEX	1.24	0.300	02/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.4	10.0	02/02/2026	ND	216	108	200	0.255	
DRO >C10-C28*	136	10.0	02/02/2026	ND	225	113	200	1.15	
EXT DRO >C28-C36	26.0	10.0	02/02/2026	ND					

Surrogate: 1-Chlorooctane 116 % 52.4-130

Surrogate: 1-Chlorooctadecane 123 % 39.9-141

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Analytical Results For:

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

Received:	02/02/2026	Sampling Date:	01/29/2026
Reported:	02/05/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 11 @ 2' (H260557-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2026	ND	2.01	101	2.00	0.415	
Toluene*	<0.050	0.050	02/03/2026	ND	1.88	94.0	2.00	0.604	
Ethylbenzene*	<0.050	0.050	02/03/2026	ND	1.86	93.2	2.00	0.412	
Total Xylenes*	<0.150	0.150	02/03/2026	ND	5.51	91.8	6.00	0.413	
Total BTEX	<0.300	0.300	02/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2026	ND	216	108	200	0.255	
DRO >C10-C28*	29.6	10.0	02/02/2026	ND	225	113	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/02/2026	ND					

Surrogate: 1-Chlorooctane 115 % 52.4-130

Surrogate: 1-Chlorooctadecane 122 % 39.9-141

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Analytical Results For:

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

Received:	02/02/2026	Sampling Date:	01/29/2026
Reported:	02/05/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 12 @ 0.5' (H260557-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2026	ND	2.01	101	2.00	0.415	
Toluene*	<0.050	0.050	02/03/2026	ND	1.88	94.0	2.00	0.604	
Ethylbenzene*	<0.050	0.050	02/03/2026	ND	1.86	93.2	2.00	0.412	
Total Xylenes*	<0.150	0.150	02/03/2026	ND	5.51	91.8	6.00	0.413	
Total BTEX	<0.300	0.300	02/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/02/2026	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2026	ND	216	108	200	0.255	
DRO >C10-C28*	<10.0	10.0	02/02/2026	ND	225	113	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/02/2026	ND					

Surrogate: 1-Chlorooctane 110 % 52.4-130

Surrogate: 1-Chlorooctadecane 113 % 39.9-141

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Analytical Results For:

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

Received:	02/02/2026	Sampling Date:	01/29/2026
Reported:	02/05/2026	Sampling Type:	Soil
Project Name:	JRU DI 7 CVB	Sampling Condition:	Cool & Intact
Project Number:	26A - 00086	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH26 - 12 @ 1' (H260557-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2026	ND	2.01	101	2.00	0.415	
Toluene*	<0.050	0.050	02/03/2026	ND	1.88	94.0	2.00	0.604	
Ethylbenzene*	<0.050	0.050	02/03/2026	ND	1.86	93.2	2.00	0.412	
Total Xylenes*	<0.150	0.150	02/03/2026	ND	5.51	91.8	6.00	0.413	
Total BTEX	<0.300	0.300	02/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/02/2026	ND	432	108	400	3.64	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2026	ND	216	108	200	0.255	
DRO >C10-C28*	<10.0	10.0	02/02/2026	ND	225	113	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/02/2026	ND					

Surrogate: 1-Chlorooctane 105 % 52.4-130

Surrogate: 1-Chlorooctadecane 109 % 39.9-141

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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.
- 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.
- 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

Appendix E. Closure Criteria Research

Closure Criteria Determination			
Site Name: JRU DI 7 CVB			
Spill Coordinates: 32.33802, -103.81779		X: UTM easting	Y: UTM northing
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	354	feet
	Distance between release and nearest DTGW reference	5,990	feet
		1.13	miles
Date of nearest DTGW reference measurement		February 11, 2004	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,565	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	11,825	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	3,128	feet
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	95,060	feet
	ii) Within 1000 feet of any fresh water well or spring	96,060	feet
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	feet
7	Within 300 feet of a wetland	4,900	feet
8	Within the area overlying a subsurface mine	No	feet
	Distance between release and nearest registered mine	21,352	feet
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
	Distance between release and nearest unstable area		feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	29,711	feet
11	Soil Type	KM, Kermit-Berino Complex	
12	Ecological Classification	R070BD005NM	
13	Geology		
	NMAC 19.15.29.12 E (Table 1) Closure Criteria		≤ 50'

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

QUESTIONS

Action 556191

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556191
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2535634554
Incident Name	NAPP2535634554 JRU DI 7 CVB @ A-06-23S-31E
Incident Type	Oil Release
Incident Status	Remediation Plan Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	JRU DI 7 CVB
Date Release Discovered	12/19/2025
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Repair and Maintenance Separator Crude Oil Released: 43 BBL Recovered: 20 BBL Lost: 23 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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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**State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 556191

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556191
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

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: NMEEnvNotifications@exxonmobil.com Date: 02/20/2026
----------------------------------------------------	------------------------------------------------------------------------------------------------------------------------

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

QUESTIONS, Page 3

Action 556191

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556191
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1/2 and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1/2 and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	1630
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	49890
GRO+DRO (EPA SW-846 Method 8015M)	45280
BTEX (EPA SW-846 Method 8021B or 8260B)	722
Benzene (EPA SW-846 Method 8021B or 8260B)	33.6

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	03/02/2026
On what date will (or did) the final sampling or liner inspection occur	01/08/2026
On what date will (or was) the remediation complete(d)	05/04/2026
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	7427
What is the estimated volume (in cubic yards) that will be remediated	388

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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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 556191

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556191
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(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.

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 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: 02/20/2026
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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 5

Action 556191

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556191
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 556191

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556191
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 556191

CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556191
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved as written except with the following conditions; 1. Variance to allow depth to water estimate beyond the preferable 0.50 miles from the point of release is approved. 2. or to backfilling the open excavation per 19.15.29.12D (2) NMAC, XTO Energy must collect a minimum of one (1) five point composite sample from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 3. XTO Energy has 90-days (June 8, 2026) to submit to OCD its appropriate or final remediation closure report.	3/10/2026