

General Information

NMOCD District:	District 2	Incident ID:	nAPP2500254282
Landowner:	Federal	Facility:	fAPP2207332396
Client:	XTO Energy, Inc.	Site Location:	Brushy Draw 30-31 Federal Battery
Date:	January XX, 2025	Project #:	25E-00017
Client Contact:	Colton Brown	Phone #:	575.988.7329
Vertex PM:	Chad Hensley	Phone #:	575.200.6167

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address the produced water release at Brushy Draw 30-31 Federal Battery. The release occurred due to corrosion of a dump line and resulted in 47 barrels of produced water being released on the facility pad as shown on Figure 1 (Attachment 1). Areas of environmental concern identified and delineated include the pad around the production equipment. Closure criteria have been selected as per New Mexico Administrative Code 19.15.29. The closure criteria for the site are presented below in Table 1.

Table 1. Closure Criteria for Soils Impacted by a Release DTGW <50 feet bgs									
Minimum depth below any point within the horizontal boundary of the release to groundwater less than	Constituent	Limit							
10,000 mg/l TDS									
	Chloride	600 mg/kg							
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg							
< 50 leet	BTEX	50 mg/kg							
	Benzene	10 mg/kg							

TDS - Total dissolved solids

Site Assessment/Characterization

Vertex performed site characterization activities on January 12 and 13, 2025. A total of 22 sample points were established, and 50 samples were collected for field screening. Samples were obtained at three discrete depths to facilitate horizontal and vertical delineation. Boreholes were advanced and samples were collected with hand tools. In total, 50 samples were submitted to Eurofins Environmental Testing, Albuquerque, New Mexico, for analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 2). Exceedances to reclamation and remediation criteria are identified in the table as bold with grey background. Daily field reports and laboratory data reports are included in Attachments 3 and 4, respectively. All applicable research as it pertains to closure criteria selection is presented in Attachment 5.

Proposed Remedial Activities

General

The release area will be remediated to closure criteria. Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Soil will be excavated to the extent of the known

VERSATILITY. EXPERTISE.

TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO),

BTEX – Benzene, toluene, ethylbenzene, and xylenes

Environmental Site Remediation Work Plan



impacts or in 1 foot increments, whichever is less. Field screening will be utilized to confirm removal of impacted soil below the applicable closure criteria. Excavated soils will be stored on a 30mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

nAPP2500254282 (January 1, 2025) -Produced Water Released onto Pad

Field screening and laboratory analysis were utilized to find the approximate horizontal and vertical extents of the spill area. A total of 50 samples were collected for analysis. Exceedances to closure criteria identified north of and adjacent to the treating equipment and extending to the pasture off the north edge of the pad will be excavated to closure criteria. Heavy equipment will be used to excavate open areas on the pad to remove contaminated soil. A hydrovac truck will be utilized to identify utility and buried pipelines as needed, and hand tools will be utilized to remove contaminated soil in close proximity to equipment, buried utilities, and pipelines. Confirmation samples will be collected as per New Mexico Oil Conservation Division (NMOCD) guidance and submitted for laboratory analysis of all applicable parameters. Surfaces of the final extents of the excavation will meet the most stringent NMOCD closure criteria. The estimated remediation area is approximately 8,971 square feet as presented on Figure 1 (Attachment 1). Excavation is planned to be completed within 90 days of approval of this Environmental Site Remediation Work Plan.

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

Lakin Pullman, B.Sc.

1/22/2025

Date

ENVIRONMENTAL SPECIALIST, REPORTING

Chad Hensley, B.Sc., GCNR

SENIOR PROJECT MANAGER, REPORT REVIEW

1/22/2025

Date

Attachments

Attachment 1. Characterization Sampling Schematic

Attachment 2. Initial Characterization Laboratory Results

Attachment 3. Daily Field Reports with Photographs

Attachment 4. Laboratory Data Reports with Chain of Custody Forms

Attachment 5. Closure Criteria Research

VERSATILITY. EXPERTISE.

ATTACHMENT 1



Released to Imaging: 1/31/2025 2:51:43 PM

ATTACHMENT 2

Client Name: XTO Energy, Inc.

Site Name: Brushy Draw 30-31 Federal Battery

NMOCD Tracking #: nAPP2500254282

Project #: 25E-00017

Lab Reports: H250139 and H250168

		Table 2. Initia	I Characte	rization S								
	Sample Des	cription			Petrole	eum Hydro	carbons					
			Vol	atile			Extractable	9		Inorganic		
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	(BYEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics) Motor Oil Range Organics (MRO)	(gRO + DRO)	Total Petroleum 지독 Hydrocarbons (TPH)	(mg/s/Chloride Concentration (s/s/s/		
			Depth to Groundwater ≤ 50 ft									
BH25-18	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	160		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BH25-19	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	96		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	48		
BH25-20	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BH25-21	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	16		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BH25-22	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	80		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	ND		
BH25-23	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	80		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	48		
BH25-24	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	80		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	64		
BH25-25	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	64		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	48		
BH25-26	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	400		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BH25-27	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	48		
BH25-28	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	96		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BH25-29	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	112		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	64		
BH25-30	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	112		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BH25-31	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	112		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BH25-32	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	96		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	32		
BH25-33	0	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	192		
	2	January 12, 2025	ND	ND	ND	ND	ND	ND	ND	16		
	0	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	7,600		
BH25-34	2	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	144		
	4	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	96		



Client Name: XTO Energy, Inc.

Site Name: Brushy Draw 30-31 Federal Battery

NMOCD Tracking #: nAPP2500254282

Project #: 25E-00017

Lab Reports: H250139 and H250168

		Table 2. Initia	l Characte	rization S	ample Lab	oratory R	esults				
	Sample Des	cription			Petrole	eum Hydro	carbons				
		Volatile Extractable								Inorganic	
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Depth to Groundwater ≤ 50 ft								
	0	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	12,700	
BH25-35	2	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	96	
	4	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	48	
	0	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	8,400	
BH25-36	2	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	144	
	4	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	16	
	0	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	9,200	
BH25-37	2	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	64	
	4	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	16	
	0	January 13, 2025	ND	ND	ND	31.3	ND	31.3	31.3	5,680	
BH25-38	2	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	48	
	4	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	ND	
	0	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	5,600	
BH25-39	2	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	80	
	4	January 13, 2025	ND	ND	ND	ND	ND	ND	ND	48	

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



[&]quot;-" indicates not analyzed/assessed

ATTACHMENT 3



Client:	XTO Energy Inc. (US)	Inspection Date:	1/12/2025
Site Location Name:	Brushy Draw 30-31 Fed Battery	Report Run Date:	1/13/2025 11:44 AM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ⁻	Times
Arrived at Site	1/12/2025 7:16 AM		
Departed Site	1/12/2025 4:20 PM		

Field Notes

- **9:20** Completed XTO and Vertex JSA on arrival. On site to start delineation of release. Received approval from Kent Retz prior to starting work.
- **9:34** Mapped edge of release staining in ArcGIS with Juniper Geode. Identified and plotted initial horizontal delineation borehole locations. Swept work areas with magnetic locator prior to ground disturbance. Magnetic interference occurred in proximity to equipment. Borehole numbering started with BH25-18 to continue in sequence with delineation boreholes from previous release north of work area.
- **19:10** Advanced boreholes BH25-18 through BH25-33 around edges of visible release area (staining) to 2 feet bgs. Samples were collected at 0 and 2 feet bgs.

Next Steps & Recommendations

1 Continue delineation.



Site Photos





At site entrance facing southwest.

Viewing Direction: East



Immediately south of primary pipe rack facing east. Advanced BH25-18 off west edge of visible release area.







South of primary pipe rack and west of large treater facing northeast. Advanced BH25-19 off edge of visible release area.

Viewing Direction: North



South of large treater facing north. Advanced BH25-21 off southernmost edge of visible release area.

Viewing Direction: East



South-southwest of large treater facing east. Advanced BH25-20 off edge of visible release area.

Viewing Direction: North



South-southeast of large treater facing north. Advanced BH25-22 northeast of BH25-21 off edge of visible release area.







South of tower facing northwest. Advanced BH25-23 off south edge of visible release area.

Viewing Direction: West



Southeast of tower facing west. Advanced BH25-24 off edge of visible release area.

Viewing Direction: East



East of tower facing west. Advanced BH25-25 off easternmost edge of visible release area.

Viewing Direction: Southwest



Immediately south of primary pipe rack, northeast of tower facing southwest.
Advanced BH25-26 off edge of visible release area.







Immediately north of primary pipe rack, northeast of tower facing west. Advanced BH25-27 off edge of visible release area.

Viewing Direction: South



North of primary pipe rack facing south. Advanced BH25-29 off north edge of visible release area.

Viewing Direction: South



North of primary pipe rack, north-northwest of tower facing south. Advanced BH25-28 off north edge of visible release area.

Viewing Direction: South



North of primary pipe rack facing south. Advanced BH25-30 off edge of visible release area.







North of primary pipe rack, under western treater facing southeast. Advanced BH25-31 off edge of visible release area.

Viewing Direction: Southeast Description Plate - 12 Westing Streation Southeast

North of primary pipe rack, west of western treater facing southeast. Advanced BH25-32 off west edge of visible release area.

Viewing Direction: East



North of primary pipe rack, southwest of western treater facing east. Advanced BH25-33 off west edge of visible release area.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	XTO Energy Inc. (US)	Inspection Date:	1/13/2025
Site Location Name:	Brushy Draw 30-31 Fed	Report Run Date:	1/14/2025 1:05 AM
	Battery		
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	1/13/2025 7:48 AM		
Departed Site	1/13/2025 1:15 PM		
		Field Not	22

Field Notes

- 8:37 Completed Vertex and XTO JSAs on arrival. On site to continue delineation of newest release.
- **9:08** Identified and mapped vertical delineation borehole locations and swept with magnetic locator prior to ground disturbance. Magnetic interference was present close to equipment.
- **13:05** Advanced boreholes BH25-34 through BH25-39 to 4 feet bgs within release area. Field screening results at 4 feet bgs were below NMOCD strictest criteria for chloride and TPH.
- **16:59** Transported samples directly to Cardinal Laboratories prior to returning to the office.

Next Steps & Recommendations

1



Site Photos

Viewing Direction: Southwest



At site entrance facing southwest.

Viewing Direction: South



North of primary pipe rack, between treating equipment facing south. Advanced BH25-34 immediately north of primary pipe rack.







South of primary pipe rack, west of treating equipment facing north. Advanced BH25-35 immediately south of primary pipe rack.

Viewing Direction: Northwest



South of primary pipe rack facing northwest. Advanced BH25-37 east of tower.

Viewing Direction: Northwest



South of primary pipe rack facing northwest. Advanced BH25-36 between treating equipment and tower.

Viewing Direction: South



North of primary pipe rack facing south. Advanced BH25-38 between treating equipment.





South of primary pipe rack facing north. Advanced BH25-39 south of treating equipment.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

ATTACHMENT 4



January 16, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/13/25 11:56.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/13/2025 Reported: 01/16/2025

01/16/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'

Project Number: 25E-00017

Project Location: XTO

Sampling Date: 01/12/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH25 - 18 0' (H250139-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/14/2025	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	192	96.2	200	4.47	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	87.9	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

Applyand By 14

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Project Number: 25E-00017 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 18 2' (H250139-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	< 0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	192	96.2	200	4.47	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	87.9	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



01/12/2025

Cool & Intact

Alyssa Parras

Soil

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Analytical Results For:

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

Received: 01/13/2025

Reported: 01/16/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'

Project Number: 25E-00017 Project Location: XTO

Sample ID: BH25 - 19 0' (H250139-03)

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	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	< 0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 71.5-13	4						
Chloride, SM4500CI-B	ma/	ka	Δnalvze	d Bv: AC					

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2025	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	192	96.2	200	4.47	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	87.9	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 96.7% 48.2-134 Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Alyssa Parras Project Number: 25E-00017 Sample Received By:

Project Location: XTO

Sample ID: BH25 - 19 2' (H250139-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2025	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	95.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025

Sampling Date: 01/12/2025 Sampling Type: Soil

Reported:
Project Name:

BTEX 8021B

GRO C6-C10*

DRO >C10-C28*

EXT DRO >C28-C36

01/16/2025 Sampling Type: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Conditio

Project Number: 25E-00017

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 20 0' (H250139-05)

•	sult								
		Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene* <0.	050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene* <0.	050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene* <0.4	050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes* <0.	150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX <0.	300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	71.5-13-	4						
Chloride, SM4500Cl-B	mg/k	g	Analyze	d By: AC					
Analyte Res	sult	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 32	2.0	16.0	01/14/2025	ND	432	108	400	3.64	
TPH 8015M	mg/k	g	Analyze	d By: MS					
Analyte Res	sult	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

ND

176

169

88.0

84.3

01/14/2025

01/14/2025

01/14/2025

Analyzed By: JH

Surrogate: 1-Chlorooctane 90.4 % 48.2-134
Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

<10.0

<10.0

<10.0

10.0

10.0

10.0

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

4.06

6.71

200

200



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Alyssa Parras Project Number: 25E-00017 Sample Received By:

Project Location: XTO

Sample ID: BH25 - 20 2' (H250139-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	< 0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025

Sampling Date: 01/12/2025

Reported: 01/16/2025
Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER`

Sampling Type: Soil

Project Number: 25E-00017

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 21 0' (H250139-07)

BTEX 8021B

	****31	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/14/2025	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13							

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Surrogate: 1-Chlorooctadecane

Celey D. Keene, Lab Director/Quality Manager

101 %

49.1-148



Analytical Results For:

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

Received: 01/13/2025

Reported: 01/16/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'

Project Number: 25E-00017

Project Location: XTO Sampling Date: 01/12/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

Sample ID: BH25 - 21 2' (H250139-08)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025

98.1 %

49.1-148

Reported: 01/16/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'

Project Number: 25E-00017

Project Location: XTO

Sampling Date: 01/12/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH25 - 22 0' (H250139-09)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2025	ND	432	108	400	3.77	
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	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Surrogate: 1-Chlorooctadecane



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 22 2' (H250139-10)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/14/2025	ND	432	108	400	3.77	
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	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 25E-00017

Project Location: XTO

Sample ID: BH25 - 23 0' (H250139-11)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	< 0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Project Number: 25E-00017 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 23 2' (H250139-12)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2025	ND	432	108	400	3.77	
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	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

Sample ID: BH25 - 24 0' (H250139-13)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025

Reported: 01/16/2025

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'

Project Number: 25E-00017

Sampling Date: 01/12/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 24 2' (H250139-14)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2025	ND	432	108	400	3.77	
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	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Applyzod By: 14

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 25 0' (H250139-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH25 - 25 2' (H250139-16)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Alyssa Parras Project Number: 25E-00017 Sample Received By:

Project Location: XTO

Sample ID: BH25 - 26 0' (H250139-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	< 0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	98.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 25E-00017

Project Location: XTO

Sample ID: BH25 - 26 2' (H250139-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	< 0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	< 0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 25E-00017

Project Location: XTO

Sample ID: BH25 - 27 0' (H250139-19)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	1.83	91.5	2.00	1.34	
Toluene*	<0.050	0.050	01/14/2025	ND	1.97	98.7	2.00	0.402	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.02	101	2.00	0.0639	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.01	100	6.00	0.0186	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 25E-00017

Project Location: XTO

Sample ID: BH25 - 27 2' (H250139-20)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	QM-07
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	QM-07
Ethylbenzene*	< 0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	QM-07
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	QM-07
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH25 - 28 0' (H250139-21)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Project Number: 25E-00017 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 28 2' (H250139-22)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

Sample ID: BH25 - 29 0' (H250139-23)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	176	88.0	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.3	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Sample Received By: Project Number: 25E-00017 Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 29 2' (H250139-24)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

Sample ID: BH25 - 30 0' (H250139-25)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025

Sampling Date:

Reported: 01/16/2025

Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER`
Project Number: 25E-00017

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

01/12/2025

Project Location: XTO

Sample ID: BH25 - 30 2' (H250139-26)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						

Analyzed By: JH

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

80.3 %

49.1-148



Analytical Results For:

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

Received: 01/13/2025

Sampling Date: 01/12/2025

Reported: 01/16/2025
Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER`

Sampling Type: Soil

Project Number: 25E-00017

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 31 0' (H250139-27)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.3	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025

Sampling Date: 01/12/2025

Reported: 01/16/2025
Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER`

Sampling Type: Soil

Project Number: 25E-00017

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 31 2' (H250139-28)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						

Analyzed By: JH

Cardinal Laboratories

81.8 %

49.1-148

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH25 - 32 0' (H250139-29)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH25 - 32 2' (H250139-30)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Sample Received By: Project Number: 25E-00017 Alyssa Parras

Project Location: XTO

Sample ID: BH25 - 33 0' (H250139-31)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/14/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/12/2025

Reported: 01/16/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras Project Number: 25E-00017

Project Location: XTO

Sample ID: BH25 - 33 2' (H250139-32)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	<0.050	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.67	111	6.00	5.09	
Total BTEX	<0.300	0.300	01/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/14/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST TOOK CEN

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

	(5/5) 353-232	(5/5) 393-2326 FAX (5/5) 500 FTY (nc.)	/, Inc.)	BILL TO			ANA	ANALYSIS REQUEST
Company Name:	elley Desource on the			P.O. #:				
Project Manager: Chad nensiey	Chad nelisiey			Company: XTO Energy, Inc.	nc.			
Address: 3101 Boyd Drive	yd Dilve	Zip: 88220		Attn: Colton Brown		RO)		
Phone #	575,725,5001	Fax #:		Address: 3104 E. Greene	St	M		
Decirct #: 35E 000		Project Owner: Colton Brown	on Brown	City: Carlsbad		-		
Project Name: Brush	Project Name: Brushy Draw 30-31 Federal Battery	Battery		State: NM Zip:	88220	_	de	
Broinet I postion.				Phone #: 575-988-2390	(5	_	or	
Project Locadon.				Fax #:	×	_	hl	
Sampler Name: L. Pullman.	. Pullman.		MATRIX	PRESERV. SAMPLING		_	C	
Lab I.D.	Sample I.D.	B OR (C)OMP.	ITAINERS INDWATER EWATER GE	BASE: COOL FER:		TPH:8015		
A50139		1	GR WA SO	ICI	9.15	X	×	
	BH25-18 0'	C		3001	9:20	+	X	
2	BH25-18 2'	2	-	- 4	9:25	X	X	
CA	3 BH25-19 0'	0	-			X	×	
4	BH25-19 2'	0			+	+	X	
8	ВН25-20 0'	0	- X		-	X	X	
0	BH25-20 2"	0			+	X	X	
1	BH25-21 0'	2	-		+	X	×	
00	BH25-21 2'	C	· ·	+	4	+	X	
9	BH25-22 0				10:05	X	×	
PLEASE NOTE: Liability and Dan completion of the applicable set	BH25-22 2' Demages: Cardinat's leadily and client's exclusive service. In no event shall Cardinal be liable	BH25-22 2' C 1 X I X I Demands and profits including land clarification because in product and profits including land clarification and profits including with the based in contract or tot, sold be limited to the security and of profits included profits include	Name of the state of the second of the state of the second of the state of the second of the state of th	The client for the analyses. All cla loss of use, or loss of profits incu- loys; stated reasons or otherwise	aries .	and any	er cause whatsoever	r shall be diseased waterd unless made in writing and recoverd by Labonas worse, average ever
Relinquished By	On the second of	Date: 1-13-35 Reco	Received By:		Verbal Result: Yes No All Results are emailed. Please provide Email address: Chad Hensley (CHensley@vertexresource.com), Lakin	☐ Yes emailed. P CHensley@	□ No lease provide gvertexresour	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address: Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Riley
Jalan By:	MM		Received By:		REMARKS: Direct	ect Bill to	XTO Energy, li	Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2500264282
Venidanava		Time:	Condition of the condit	CHECKED BY:	Turnaround Time:	Standard	Bacteria jor	Bacteria (only) Sample Condition
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	rcle One) Bus - Other:	Observed Temp. °C	Sample Condition Cool Intact Ves 2 Ves		Thermometer ID	Cool Intact	Observed Temp. "C	□ Yes □ Yes
				A	AP 1-13-25	12-2	10	NO COMPANY SENSO.

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

FORM-006 R 3.2 10/07/21

Page 35 of 38

Delivered By: (Circle One)

Corrected Temp. °C Observed Temp. °C

1.1. ごって

Cool Intact

Sample Condition

CHECKED BY (Initials)

18 X

Cool Intact

ved Temp. "C

Sampler - UPS - Bus - Other:

FORM-006 R 3.2 10/07/21

Relinquished By

elinguished By:

BH25-26 0' BH25-25 2"

×

10:40 10:45

> × ×

× ×

11:00 10:55 10:35

BH25-27 2' BH25-27 0' BH25-26 2'

no event shall Cardinal be liable for incidental or consequental damages, elated to the performance of services hereunder by Cardinal, regardless

06:00 Date 1-13-15

Received By:

Received By:

 Verbal Result:
 □ Yes
 □ No
 Add'I Phone #:

 All Results are emailed. Please provide Email address:
 Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Riley Plogger (RPlogger@vertexresource.com)

 Plogger (RPlogger@vertexresource.com)
 Plogger (RPlogger@vertexresource.com)

 REMARKS:
 Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2500254282

Date:

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-2476	-2476					ANALYSIS REQUEST
ompany Name: Ver	Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	O Energy, Inc.)	BILL TO		-	+	ANALOGO
Project Manager: Chad Hensley	had Hensley		P.O. #:			_	
Address: 3101 Boyd Drive	Drive		Company: XTO Energy, Inc.)	_	
1	State: NM Zip: 88220		Attn: Colton Brown		RO		
City. Constitute	100		Address: 3104 E. Greene St		M	_	
Phone #:	575.725.5001 Fax #:		O. Laboratoria		/ 1	_	
Project #: 25E-00017		Project Owner: Colton Brown			_		
	no of Federal Batton		State: NM Zip: 8	88220	-	_	
roject Name: Brus	Project Name: Brusny Draw 30-31 redeted Carrely		Bhons #: 675-988-2390		-	_	
Project Location:			THOUGH. OF COOK SEED		RO	ilor	
Sampler Name: L. Pullman.	oullman.		rax#.		_	_	
dilibiei Manie. E.		MATRIX	PRESERV. SAMPLING		-	_	
Lab I.D.	Sample I.D.	CONTAINERS ROUNDWATER VASTEWATER DIL IL LUDGE	CID/BASE: CE / COOL OTHER:	TIME	TPH:8015	1111:0013	
4510524		# G × S	1	10:10	X	XX	
//	BH25-23 0"	V V	1-17-20	10:15	X	XX	
12	BH25-23 2'	CI	- 4 8	10.20	×	X	
3	BH25-24 0'	C 1 X		10.25	+	X .	
14	BH25-24 2'	C 1 X		10.30	+	+	
8/	BH25-25 0'	C 1 X		10.35	+	-	

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

AU

1-13-05

Correction Factor-0.5°C hermometer ID #45 #140

ON ON ON O

ted Temp. "C

Page 36 of 38

FORM-006 R 3.2 10/07/21

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

1:13:05

ON ON ON

O NO O NO

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 (Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	urce Services (Direct Bill to XTO Energy	Energy, Inc.)	BILL	70			ANALYSIS	SIS REQUEST
Chad Harria			P.O. #:					
Project Manager: Chad Hensley			Company: XTO Energy, Inc	Energy, Inc.				
0	Zip: 88220		Attn: Colton Brown	nwo		(0)		
Dhone #: 575.72	575.725.5001 Fax #:		Address: 3104 E. Greene	Greene St		MF		
25E-00017		Project Owner: Colton Brown	City: Carlsbad)	O/		
Trigothic Prichy Draw 30-31	Federal Battery		State: NM Z	Zip: 88220	21	DF	le	
Project Name: Brushy Draw 30-31 Federal Date:	energy Parrery		Phone #: 575-988-2390		80	/	rid	
Project Location:			Filolie #. or o-oo	0.000	X (RO	hlor	
Sampler Name: L. Pullman.			Fax #:		E	G	Ch	
		MATRIX	(PRESERV.	SAMPLING	вт	15D(
	Sample I.D.	G)RAB OR (C)OMP CONTAINERS ROUNDWATER VASTEWATER OIL	OTHER: OTHER: OCID/BASE: OTHER:	DATE TIME		ТРН:8		
HZS 01 57		1 # S	S	下口路 11:10	H	X	×	
-		C 1 X		11:15	×	×	X	
,		C 1 X		11:20	X	X	X	
C 0 12-22 0 2		C 1 X		11:25	×	X	X	
1		C 1 X		11:35	+		2 >	
BH25-30 2'		C 1 X		11:40		4 >	V >	
37 BH25-31 0'		-		11:50	+	×	X	
		C 1 X		11:55	X	X	×	
BH25-32 0				12:00	0 X	X	X	de la company
BH 22-32 2 BH 23-32 2 B	ligents exclusive remedy for any claim arising whether be dryal be liable for incidental or consequental damag arising the liable for incidental or consequental damag arising the liable for the liable for the consequent of the consequence of an arising the liable for the consequence of an arising the consequence of a consequence	remedy for any claim arrang whether based in contract or tot, shall be lamined to the securit polity the claim for the analyses. All claims or incidental or contemperated damages, including without limitation, business interruptions, loss of use, or loss of profiles incur- ones havenodes by Carthall, regardless of whether such claim is based upon any of the above stated research or officienses	he arount pad by the client for the lamblyness. All claims, including those to negle sis interruptions, loss of use, or loss of profile incurred by client, its subpoliantes pon any of the above stated reasons or otherwise:	lyses. All claims, including those for of profits incurred by client, its subside or otherwise	tor negligence osidiaries	and any other	BUSE WHATSDEVER SEASONS OF	Control of the contro
Relinquished by:	Dale: 13-25	Received By:			esult: [ts are ema	Yes liled. Pleansley@v	Verbal Result: ☐ Yes ☐ No Add'I Pho All Results are emailed. Please provide Email address: Chad Hensley (CHensley@vertexresource.com), Lakin I	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address: Chad Henslev (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com), Ri
Relinquished By:	Time: Date:	Received By:		Plogger	Plogger (RPlogger REMARKS: Direct	Bill to XT	@vertexresource.com) Bill to XTO Energy, Inc., C	@vertexresource.com) @vertexresource.com Bill to XTO Energy, Inc., Cost Center#: 2027691371, Incident#: nAPP2500254282
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C	Sample Condition	ndition CHECKED BY:	ED BY: Turnaround Time	0	Indard [Bacteria (only) Sample Condition Observed Temp. *C	ple Condition
		1.12	8 8	Thermometer ID Correction Facto	Correction Factor 48°C-0.6	1 45.00.00 B	60	□ Yes □ Yes □ No □ Corrected Tump. "C

Page 37 of 38

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Atories East Marland, Hobbs, NM 88240 F75) 393-2326 FAX (575) 393-2476
--

REASE NOTE: Labelly and Collection for applicable services. In the several shall Cardinal to labels for incidental or connectional standards incomed to the several shall Cardinal to labels for incidental or connectional standards, incoming whether stands in connectional standards in the several shall Cardinal to labels for incidental or connectional standards, incoding whiteval involutions, complete, and claims including mount for major for the amalyses. All claims including mount for major for major for the amalyses. All claims included in major for major for the amalyses. All claims included in major for major for the amalyses. All claims included in major for major for the amalyses. All claims included in major for major for major for major for the amalyses. All claims included in major for m	PLEASE NOTE: Labelly and Denager. Cardinal's labelly and desirts worksize remain completion of the applicable service. In no event shall Curdonal be liable for inor affeliates or successors arising out of or related to the performance of services it.				20	27 RH25-33 2'	7/BH25-33 0'	Lab I.D. Sample I.D.	Sampler Name: L. Pullman.	Project Location.	To continue to the second seco	Project Name: Brushy Draw 30-31 Federal Battery	Project #: 25E-00017		M	Address: 3101 Boyd Drive	Project Manager: Chad Hensley	Company Name: Vertex Resource Services (Direct Bill to XTO Energy, Inc.)	(575) 393-2326 FAX (575) 393-2476
11	Time: 1-13-15 Received By:	wady for any claim arraing whether based in contra incidental of consequential damages, including es herquinder by Caridinal, regardiess of whether				C 1	1.2	(G)RAB OR (C)OMP. # CONTAINERS				ery	Project Owner: Colton Brown	Fax#:	Zip: 88220			ect Bill to XTO Energy, I	AX (575) 393-2476
	Received By:	in contract or ton, shall be limited to the amount principling without limitation, business inferrupt of whether such claim is based upon any of the				Х		SLUDGE	MATRIX	T	T	(0)		Þ	Þ	C	7	nc.)	
CHECKED BY:		art paid by the client for the amalyses. All claims mupfilors, loss of use, or less of profits incurrer of the above stated reasons or otherwise.				01.12.25	01.12.25	D	PRESERV. SAMPLING	Fax #:	Phone #: 575-988-2390	State: NM Zip:	City: Carlsbad	Address: 3104 E. Greene St	Attn: Colton Brown	Company: ATO chergy, inc.	P.O. #:	BILL TO	
Turnaround Time:	All Results are e Chad Hensley (C Plogger (RPlogg REMARKS: Dire	d by client, its subsidiaries.				12:10	12:05	IME		X	(8)	88220		St		ç	5		
Standard Cheenad Temp 'C	mailed. Plo Hensley@ Jer@vertex Bect Bill to X	toe and any other				>	v ×	T.D.I. 00151	_	_	_	_	_	/ M	RO)			
Decreise (nink) company	Verbal resolute. All Results are emailed. Please provide Email address: Chad Hensley (CHensley@vertexresource.com), Lakin I Plogger (RPlogger@vertexresource.com) REMARKS: Direct Bill to XTO Energy, Inc., Cost Center	No manomen				>	× ×		(Chle	orio	le						ANAL	
	verban research. All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: Chad Hensley (CHensley@vertexresource.com), Lakin Pullman (Lpullman@vertexresource.com). Plogger (RPlogger@vertexresource.com) REMARKS: Direct Bill to XTO Energy, Inc., Cost Center #: 2027691371, Incident #: nAPP2500254282	Add'I	ha dearned waked unless made in writing and received by Cardinisi within 30 cays after															ANALYSIS REQUEST	

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

FORM-006 R 3.2 10/07/21



January 17, 2025

CHAD HENSLEY

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: BRUSHY DRAW 30-31 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/13/25 15:30.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/13/2025

Reported: 01/17/2025 Sampling Type: Soil Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition:

** (See Notes) Project Number: 25E-00017 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25-34 0' (H250168-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/13/2025

Reported: 01/17/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: ** (See Notes)
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: BH25-34 2' (H250168-02)

BTEX 8021B

	91	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	119 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/13/2025

Reported: 01/17/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER` Sampling Condition: ** (See Notes)
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: BH25-34 4' (H250168-03)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



01/13/2025

Analytical Results For:

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

Received: 01/13/2025 Sampling Date:

Reported: 01/17/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: ** (See Notes) Project Number: 25E-00017 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: BH25-35 0' (H250168-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12700	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	121 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Reported:

01/17/2025 Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'

Project Number: 25E-00017

Project Location: XTO Sampling Date: 01/13/2025

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Alyssa Parras

Sample ID: BH25-35 2' (H250168-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	128 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	141 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/13/2025

Reported: 01/17/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER` Sampling Condition: ** (See Notes)
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: BH25-35 4' (H250168-06)

BTEX 8021B

DIEX GOZID	ıııg,	Kg .	Allulyzo	.u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	120 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/13/2025

Reported: 01/17/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER` Sampling Condition: ** (See Notes)
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: BH25-36 0' (H250168-07)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



01/13/2025

Analytical Results For:

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

Received: 01/13/2025 Sampling Date:

mg/kg

Reported: 01/17/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: ** (See Notes)
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH25-36 2' (H250168-08)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



01/13/2025

Soil

Analytical Results For:

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

Received: 01/13/2025 Sampling Date:

mg/kg

Reported: 01/17/2025 Sampling Type:
Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition:

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: ** (See Notes)
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

Sample ID: BH25-36 4' (H250168-09)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	114 %	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/13/2025

Reported: 01/17/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: ** (See Notes) Sample Received By: Project Number: 25E-00017 Alyssa Parras

Project Location: XTO

Sample ID: BH25-37 0' (H250168-10)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	< 0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	< 0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	115 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 %	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Reported: 01/17/2025

mg/kg

Reported: 01/17/2025
Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER`

Project Number: 25E-00017

Project Location: XTO

Sampling Date: 01/13/2025

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Alyssa Parras

Sample ID: BH25-37 2' (H250168-11)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



Analytical Results For:

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

Received: 01/13/2025

01/17/2025 Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'

mg/kg

Project Number: 25E-00017

Project Location: XTO Sampling Date: 01/13/2025

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Alyssa Parras

Sample ID: BH25-37 4' (H250168-12)

Reported:

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/14/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



01/13/2025

** (See Notes)

Alyssa Parras

Analytical Results For:

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

Received: 01/13/2025 Reported: 01/17/2025

01/17/2025 Sampling Type: Soil BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: ** (

Sampling Date:

Sample Received By:

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'
Project Number: 25E-00017

Project Location: XTO

Sample ID: BH25-38 0' (H250168-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID 95.0 % 71.5-134

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	01/15/2025	ND	416	104	400	0.00	QM-07
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	31.3	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134
Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025

mg/kg

Reported: 01/17/2025 Samp

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER`
Project Number: 25E-00017

Project Location: XTO

Sampling Date: 01/13/2025

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Alyssa Parras

Sample ID: BH25-38 2' (H250168-14)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 71.5-13	4						
Chloride, SM4500CI-B	hloride, SM4500Cl-B mg/kg		Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
urrogate: 1-Chlorooctane 116 % 48.2-1		4							
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025 Sampling Date:

01/13/2025

Reported: Project Name: 01/17/2025

Sampling Type:

Soil

BTEX 8021B

BRUSHY DRAW 30-31 FEDERAL BATTER'

Sampling Condition: Sample Received By: ** (See Notes) Alyssa Parras

Project Number:

25E-00017

mg/kg

Project Location: XTO

Sample ID: BH25-38 4' (H250168-15)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050 0.050		01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX <0.300		0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID 94.8 % 71.5		% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/15/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Reported: 01/17/2025

 01/13/2025
 Sampling Date:
 01/13/2025

 01/17/2025
 Sampling Type:
 Soil

Analyzed By: JH

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER'

mg/kg

Sampling Condition: ** (See Notes)
Sample Received By: Alyssa Parras

Project Number: 25E-00017 Project Location: XTO

Sample ID: BH25-39 0' (H250168-16)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	1.84	91.9	2.00	2.54	
Toluene*	<0.050	0.050	01/15/2025	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	1.93	96.5	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	5.68	94.7	6.00	2.18	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500Cl-B mg/kg			Analyze	ed By: KV					
Analyte	Result Reporting Limit		Analyzed	Method Blank BS		BS % Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	01/15/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/13/2025

Reported: 01/17/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: ** (See Notes)
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: BH25-39 2' (H250168-17)

BTEX 8021B

	9/	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	2.00	100	2.00	1.50	QM-07, QR-03
Toluene*	<0.050	0.050	01/15/2025	ND	2.11	106	2.00	1.04	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.16	108	2.00	0.785	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.46	108	6.00	0.710	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/15/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	207	104	200	6.19	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	204	102	200	9.73	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 01/13/2025 Sampling Date: 01/13/2025

Reported: 01/17/2025 Sampling Type: Soil

Project Name: BRUSHY DRAW 30-31 FEDERAL BATTER' Sampling Condition: ** (See Notes)
Project Number: 25E-00017 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

Sample ID: BH25-39 4' (H250168-18)

RTFY 8021R

B1EX 8021B	mg,	ку	Allalyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2025	ND	2.00	100	2.00	1.50	
Toluene*	<0.050	0.050	01/15/2025	ND	2.11	106	2.00	1.04	
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.16	108	2.00	0.785	
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.46	108	6.00	0.710	
Total BTEX	<0.300	0.300	01/15/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	193	96.7	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	199	99.3	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					
Surrogate: 1-Chlorooctane	111 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



-15	110		
Chan Hems to Janvices	County & Of 11.18	P.O. #:	ANALYSIS REQUEST
		Company: XTO Gran	
Dity: State:	Zip:	\neg	
Phone #: 515-125-500/ Fax #:	,	Address 3104 G. Greenest	
4	Colton Brown	r Kbay	DRI
Project Name: Brushy Draw 30-01 fee		State: NM Zip: 8611	
7.	-	Phone #: 578-088-2	
Sampler Name: SAMUNUM		1	21
FOR LAB USE ONLY	S	PRESERV. SAMPLING	(80
Lab I.D. Sample I.D.	(G)RAB OR (C) # CONTAINER: GROUNDWATI WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH 80 Chlor
のである。	- 97 - ×	1-13-25 08:45	3 伊
100 00 00 00 00 00 00 00 00 00 00 00 00		0.9	09:08
でまた。 でまた。 では、 では、 では、 では、 では、 では、 では、 では、		300	
BH25-36 0'		90	<i>D</i> (
38-31-36 H		000	
EASE NOTE: Liability and Damanos Cardinal's liability and client's varieties for marks for	ny claim which has been in contract or	J 09	:48
ose for negligence and any other cau al be liable for incidental or consequ at of or related to the performance of	sources remoty or any came aissing whether based in contract of fort, shall be inmided to the amount paid by the client for the see whatsoewer shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the ental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwises.	or, shall be limited to the arrount paid by the ceived by Cardinal within 30 days after comp s of use, or loss of profits incurred by client, its assed upon any of the above stated reasons or	collection the explicable Interned Costonic Samples are substitutes.
Jako Mines	COOCUE BY:	Ch Ch	il Phone #:
Relinquished BY: V Time:	Received By:	4 RE	REMARKS: Direct by 11 to XTO GRANTING Cost Conter# : 2027691371
Sampler - UPS - Bus - Other: Corrected Temp. °C 140	- 40	CHECKED BY: T	Standard B
FORM-000 N 3.3 06/03/24	ON NO NO	Corre	Correction Factor -0.6°C ☐ No ☐ No Corrected Temp. °C

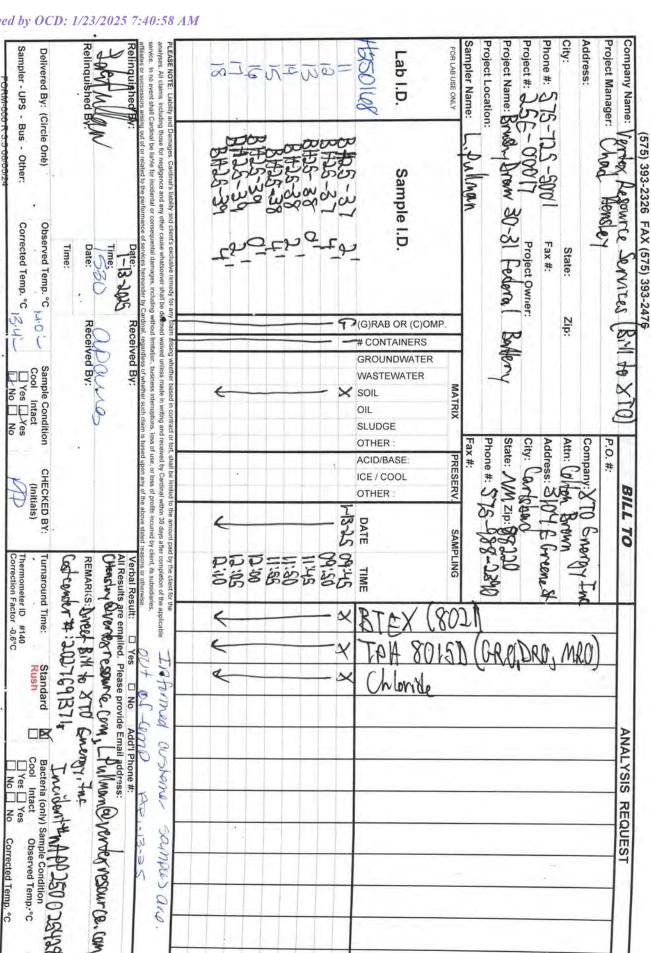
Cardinal can nt ac

ept " "bal changes. Please email changes to celey.keene@card netter spr-

mr.

101 East Marland, Hobbs, NM 88240

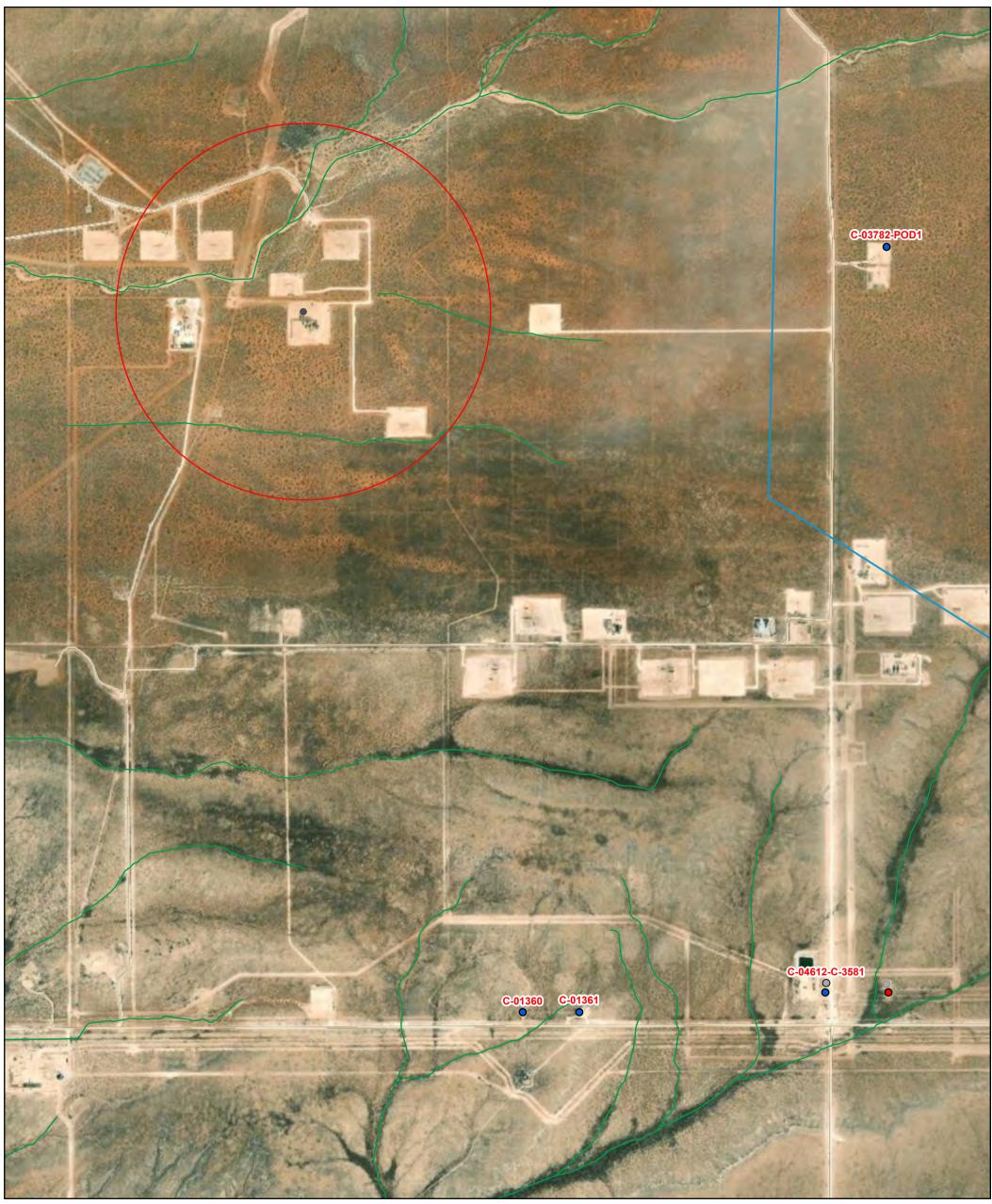
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



ATTACHMENT 5

Closure C	riteria Determination			
	e: Brushy Draw 30-31 Federal Battery	1		
	Coordinates: 32.091960,-103.918838	X: 602022	Y: 3551140	
ite Spec	ific Conditions	Value	Unit	Reference
	Depth to Groundwater (nearest reference)	100-	500 ft	
1	Distance between release and nearest DTGW reference	1-	5 mi	1
	Date of nearest DTGW reference measurement	January	17, 2015	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	500 -	2	
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	1-	5 mi	3
4	Within 300 feet from an occupied residence, school, hospital, institution or church	5m	ni <	4
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	1 -	5 mi	5
	ii) Within 1000 feet of any fresh water well or spring	1 -	5 mi	5
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)	6
7	Within 300 feet of a wetland	1 -	5 mi	7
	Within the area overlying a subsurface mine	No	(Y/N)	
8	Distance between release and nearest registered mine	5n	ni <	8
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low	9
	Distance between release and nearest unstable area	1-	5 mi	7
	Within a 100-year Floodplain	>500	year	
10	Distance between release and nearest FEMA Zone A (100 year Floodplain)	500 -	1000 ft	10
11	Soil Type	Fine sand, sa	ndy clay loam	11
12	Ecological Classification	Loam	y sand	12
13	Geology	Eolian and pie	dmont deposits	13
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'	

OSE POD 0.5 Miles



12/11/2024, 8:13:17 AM GIS WATERS PODs

Active

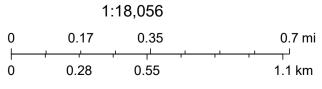
Plugged

Water Right Regulations

Artesian Planning Area

NHD Flowlines

Stream River



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)				ers are	raost)				(NAD83 UTI	M in motors)			(In feet)	(In feet)	(In feet
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range		Y	Мар	Distance	Well Depth	Depth Water	Water Column
<u>C 03782 POD1</u>		CUB	ED	SE	SW	SW	28	255	30E	604525.7	3551444.2		2522	805	277	528
<u>C 01360</u>		CUB	ED	SE	SW	SW	05	26S	30E	602996.6	3548152.0	•	3142	770	173	597
<u>C 04705 POD1</u>		CUB	ED	NE	NW	NE	35	25S	29E	598866.5	3551191.8	•	3155			
<u>C 01361</u>		CUB	ED	SW	SE	SW	05	265	30E	603240.4	3548157.5	•	3221	775	184	591
<u>C 03581 POD1</u>		CUB	ED	SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3646	800	320	480
<u>C 03483</u>		С	ED	SE	SE	SE	05	26S	30E	604296.3	3548251.4	•	3676	700	200	500
<u>C 04558 POD1</u>		CUB	ED	SW	SE	SW	23	25S	29E	598353.7	3553039.4	•	4130			
<u>C 04529 POD1</u>		CUB	ED	NW	SW	NW	18	25S	30E	601076.9	3555733.7	•	4689			
<u>C 04755 POD2</u>		CUB	ED	SE	NW	SW	12	265	29E	599857.0	3546955.1	•	4711	25		
<u>C 04720 POD1</u>		CUB	ED	SE	NW	SW	12	265	29E	599807.3	3546968.8	•	4722			
C 04755 POD1		CUB	ED	SE	NW	SW	12	265	29E	599787.4	3546971.4	•	4729	40		
C 04720 POD4		CUB	ED	SE	NW	SW	12	265	29E	599812.4	3546955.0	•	4732			
<u>C 04720 POD2</u>		CUB	ED	SE	NW	SW	12	26S	29E	599835.7	3546932.1	•	4741			
C 04720 POD3		CUB	ED	SE	NW	SW	12	265	29E	599835.7	3546932.1	•	4741			
<u>C 04720 POD5</u>		CUB	ED	SE	NW	SW	12	265	29E	599840.0	3546920.4	•	4750	20		
<u>C 04720 POD6</u>		CUB	ED	SE	NW	SW	12	26S	29E	599857.7	3546880.9	•	4777	31		
<u>C 04755 POD3</u>		CUB	ED	SE	NW	SW	12	26S	29E	599747.8	3546862.3	•	4844	103		
														Average [Depth to Wa	ter: 230 f є
														Minimum	Depth: 173	feet
														Maximum	Depth: 320) feet
4																>

Record Count: 17

<u>UTM Filters (in meters):</u>

Easting: 602022 Northing: 3551140 Radius: 005000

* UTM location was derived from PLSS - see Help

Received by OCD: 1/23/2025 7:40:58 AM
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/11/24 6:21 AM MST Water Column/Average Depth to Water

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | Disclaimer | Contact Us | Help | Home |

Point of Diversion Summary

			re 1=NW 2=NE 3 rs are smallest to					NAD83 UTM	in meters		
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Мар	
	C 03782 POD1	SE	SW	SW	28	25S	30E	604525.7	3551444.2	•	
* UTM locatio	n was derived from P	LSS - see H	elp								
Driller License:	331	Drille	r Company:	SBQ2, LI	LC DBA	STEWA	RT BRO	THERS DRILL	ING CO.		
Driller Name:	STEWART, Jo	OEL H.									
Drill Start Date:	2015-01-16	Drill F	inish Date:	2015-01	-17				Р	lug Date:	
Log File Date:	2015-02-19	PCW	Rcv Date:						S	ource:	Artesian
Pump Type	2:	Pipe I Size:	Discharge						_	stimated ield:	
Casing Size	e: 8.63	Depti	ı Well:	805					D	epth Water:	277

Water Bearing Stratifications:

Top Bottom		Description
260	320	Sandstone/Gravel/Conglomerate
320	380	Sandstone/Gravel/Conglomerate
380	410	Sandstone/Gravel/Conglomerate
410	530	Shale/Mudstone/Siltstone
530	590	Shale/Mudstone/Siltstone
590	600	Shale/Mudstone/Siltstone
600	630	Shale/Mudstone/Siltstone
630	650	Shale/Mudstone/Siltstone
650	700	Shale/Mudstone/Siltstone
700	710	Shale/Mudstone/Siltstone
710	760	Shale/Mudstone/Siltstone
760	770	Shale/Mudstone/Siltstone

Тор	Bottom	Description
770	780	Shale/Mudstone/Siltstone
780	790	Shale/Mudstone/Siltstone
790	805	Shale/Mudstone/Siltstone

Casing Perforations:

Тор	Bottom
270	805

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

12/11/24 6:57 AM MST Point of Diversion Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | <u>Disclaimer</u> | <u>Contact Us</u> | <u>Help</u> | <u>Home</u> |

Water Right Summary WR File Number: Subbasin: **Cross Reference: Primary Purpose: EXP EXPLORATION** <u>list</u> **Primary Status:** PMT Permit **Total Acres:** Subfile: Header: **Total Diversion:** 0.000 Cause/Case: Owner: ATKINS ENGR ASSOC INC **CHRIS CORTEZ Contact:** Owner: BOPCO, L.P. BRIAN PREGGER Contact: **Documents on File** (acre-feet per annum) Transaction Status Status Trn # File/Act 2 Transaction Desc. From/To **Images** Doc Acres Diversion Consumptive get images 555125 EXPL 2014-11-14 PMT LOG C 03782 0.000 0.000 **Current Points of Diversion POD Number** Well Tag Х Υ **Other Location Desc** Source Q64 Q16 **Q4** Rng Tws C 03782 POD1 Artesian SE SW SW 28 255 30F 604525.7 3551444.2 2/3 MILE SW OF HEDGEHOG ROAD * UTM location was derived from PLSS - see Help

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

12/11/24 6:59 AM MST Water Rights Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | <u>Disclaimer</u> | <u>Contact Us</u> | <u>Help</u> | <u>Home</u> |



	OSE POD NU	^	/ELL NUMBER)	· · · · · · · · · · · · · · · · · · ·			OSE FILE NUI	MBER(S)	Renui	mBere -383	d		
NO	POD-1	Re	numbered	C-3832-1	002		C 3782	x Ploratory	\ C	-383	2		
ATI	WELL OWN	ER NAME	(S)				PHONE (OPTI	ONAL)	<i>*</i>				
00	ворсо,	L.P.					(817) 390-8662						
TI	1		NG ADDRESS		· · · · · · · · · · · · · · · · · · ·		CITY		STATE		ZIP		
VEL	201 N M	ain St S	uite 2900				Fort Wort	h	TX	76 10)2		
GENERAL AND WELL LOCATION	WELL		DEGRE	ES MINUTES	MINUTES SECONDS				eter <u>je</u> t tre v rin	to the se			
Į.	LOCATIO)N T	ATTTUDE 32	05	40.1	N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SEC	COND			
RAI	(FROM GI	PS)	100	53	32.2	· w	* DATUM REQUIRED: WGS 84						
NE			WINGITUDE				Survey to a Me	PO MATERIAL AND A STATE OF THE PROPERTY OF THE	er and a second		12 25 14 14 1 1 1 1 1 1 1		
1. G	!		GWELL LOCATION TO STRE 1/4SW1/4 of Secti						ad.				
	LICENSE N	JMBER	NAME OF LICENSE	D DRILLER		et i e		NAME OF WELL DR	ILLING COM	IPANY			
	331		Joel H. Stewar	t				SBQ Drilling, LI	_C				
	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF COMPLET	ED WELL (FT)	BORE HOI	LE DEPTH (FT)	DEPTH WATER FIR:	ST ENCOUN	TERED (FT)			
	01-16-15	5	01-17-15	805		±805							
; ;						1	· · ·	STATIC WATER LEV	EL IN COM	PLETED WE	LL (FT)		
7	COMPLETE	D WELL IS	s: • artesian	O DRYHOLE C	SHALLOW (UNC	ONFINED)		277					
O	DBH I BIG F	T 17TD	C AIR	● MUD	ADDITIVES – SPE	CHEV.		I			•		
- Y	DRILLING F												
OR	DRILLING METHOD:												
CASING INFORMATION	DEPTH (feet bgl) BORE HOLE				CASING MATERIAL AND/OR CA GRADE		SING	CASING		CASING WALL			
S N	FROM TO		Direct	(include each ca			VECTION YPE	INSIDE DIAM.		(NESS	SIZE (inches)		
ASI			(inches)	note section	s of screen)		1112	(inches)	((menes)		
23	0	270	14.75	ASTM A53B		Welded	i	8.625	0.322		35		
2. DRILLING	270	805	14.75	304 Stainless :	Steel	Welded		8.625	0.25		=17 16		
3	0	15	19	AS1M A53B				16	0.25	33	Tra Terr		
											53		
7													
											(
										₩ û	19		
										<u> </u>	ä		
											(p. A. 8		
				.,	er trati					gas Skirte i Wilse			
	DEPTH	(feet bgl)	BORE HOLE	LIST AN	NULAR SEAL MA	ATERIAL A	ND	AMOUNT		METHO	D OF		
AL.	FROM	ТО	DIAM. (inches)	GRAVEL P.	ACK SIZE-RANG	E BY INTE	RVAL	(cubic feet)		PLACEM	IENT		
ERL	0	120	14.75	Sand Mix Read	dy Mix			90.36	gra	av. tremi	e meas.		
(AT)	120	170	14.75	Hydrated Ben	tonite Chips			35.90	gra	av. tremi	e meas.		
ANNULAR MATERIAL	170	805	14.75	6/9 Silica Sand	1			455.95	l re	emie Pip	e		
JL.A									****				
NI													
3. AT													
FOR	OGD DYFF		n 0 -40	11 1-2	7762.00	<u>۸ 1</u>		N. H. P. P. CO. T.		1 0210	0/0015		
FOR	OSE INTER	INAL US	E Renumber	ed trom c-3	POD NUMBER			WELL RECORD & NUMBER 544	& LOG (Ve	ersion U6/03	8/2012)		
1.00	E NUMBER CATION	<u>رک" ب</u> - مرت	854	/3	1 OD NOMBEK	POD:		10 MBBR 3 35	125	PAGE	1.083		
1	411UN	Z5.3	0.28.334	15.						LIAGE	1 OF 2		

Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano Correct Record of The Above Described Hole And That He or SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano Correct Record of The Above Described Hole And That He or SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano Correct Record of The Above Described Hole And That He or SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Silverio Galindo, Gabriel Armijo, Pedro Pizano Silverio Galindo, Ga		DEPTH (feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES/NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)			
30 40 10 Sandy Silt, light brown, sub-angular	1	U	30	30	Cemented Sand, light tan, sub-angular	$O^{Y}O^{N}$				
Figure 1 Figure 2 Slity Sand, light brown, sub-angular C Y C N		30	40	10	Sandy Silt, light brown, sub-angular	7607 5647				
250		40	60	20	Sandy clay, reddish brown	$O \times O N$				
250 260 10		60	80	20	Silty Sand, light brown, sub-angular	OYON				
250 320 60 Fine Sand, light tan, sub-angular		80	250	170	Fine to Medium Sand, light tan, sub-angular to rounded	$O^{Y}O^{N}$				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	ı,	250	260	10	Clayey Sand, brown, sub-angular	$O_A O_N$				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	VEL	260	320	60	Fine Sand, light tan, sub-angular	⊙ Y C N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	P.	320	380	60	Silty Sand, brownish gray, sub-angular	© Y C N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	00	380	410	30	Fine Sand, dark gray, sub-angular					
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	IC F	410	530	120	Clayey Fine Sand, dark gray, sub-angular	● Y C N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	503	530	590	60	Sandy Clay, dark gray, sub-angular	● Y O N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	EO	590	600	10	Clayey Fine Sand, dark gray, sub-angular	© Y O N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	ROC	600	630	30	Sandy Clay, dark gray, sub-angular	● Y C N				
Correct record of the above described hole and that the or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and that he or she will file this well record with the state engineer and the permit holder within 20 days after completion of well drilling: Correct record of the above described hole and the permit had the permit holder within 20 days after completion of well drilling:	EXD	630	650	20	Clayey Sand, dark gray, sub-angular	● Y O N				
710 760 50 Sandy Clay, dark gray, sub-angular 760 770 10 Clay, 75% gray, 25% red 770 780 10 Clay, 50% gray, 50% red 780 790 10 Clay, 50% gray, 50% red 790 805 15 Sandy Clay, Grayish red, 10% white sand. METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP C AIR LIFT BAILER OTHER - SPECIFY: TBD by pump test WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2-13-45	4	650	700	50	Sandy Clay, dark gray, sub-angular	⊙ Y C N				
710 760 50 Sandy Clay, dark gray, sub-angular 760 770 10 Clay, 75% gray, 25% red 770 780 10 Clay, 50% gray, 50% red 780 790 10 Clay, 50% gray, 50% red 790 805 15 Sandy Clay, Grayish red, 10% white sand. METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP C AIR LIFT BAILER OTHER - SPECIFY: TBD by pump test WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2-13-45		700	710	10	Clayey Sand, brown and gray, sub-angular	● Y O N				
770 780 10 Clay, 50% gray, 50% red		710	760	50	Sandy Clay, dark gray, sub-angular					
780 790 10 Clay, 25% gray, 75% red 790 805 15 Sandy Clay, Grayish red, 10% white sand. METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP C AIR LIFT BAILER OTHER - SPECIFY: TBD by pump test WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIODS MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICEUMEN Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2 - 13 - 15		760	770	10	Clay, 75% gray, 25% red	● Y O N	, , , , , , , , , , , , , , , , , , , ,			
790 805 15 Sandy Clay, Graylsh red, 10% white sand. METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP TOTAL ESTIMATED WELL YIELD (gpm): TBD WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIODS MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSES. Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 15 July 15 July 16 July 17 July 17 July 18 Jul		770	780	10	Clay, 50% gray, 50% red	⊙ Y O N				
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP O AIR LIFT		780	790	10	Clay, 25% gray, 75% red	● Y C N				
WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD. START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2 - 13 - 15		790	805	15	Sandy Clay, Grayish red, 10% white sand.	● Y C N				
WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIODS MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSET Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: 2 - 13 - 15		METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA: PUMP		TRD			
START TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIODS MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Silverio Galindo, Gabriel Armijo, Pedro Pizano THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: Jack H. Stewart 2-13-15		C AIR LIF		BAILER (•)	OTHER – SPECIFY: TBD by pump test	WELL YIELD (gpm):				
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 16	NO	WELL TES	T TEST	RESULTS - ATT I TIME, END TI	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCL ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER	LUDING DISCHARGE N R THE TESTING PERIO	AETHOD,			
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 1	VIS					er E. E.E. er e min samme e e ear	a Im			
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 1	JP EF	Pump te:	st will be p I Bentonit	performed at a e Chips and S	a later time. and Mix Ready Mix were placed by gravity and tagged with	tremie nine.	_ 5			
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 1	lc st	riyaratee	· Demonie	e emps und s	and mix needy mix were placed by gravity and tagged min.					
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 1	[; E					siè N				
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 1	TES	PRINT NAM	Æ(S) OF DE	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS					
CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July Jul	νń	Silverio Galindo, Gabriel Armijo, Pedro Pizano								
AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: July 18 July										
Sel 18 Home July 1. Stewart 2-13-15	TURE					CORD WITH THE STA	IE ENGINEER			
SUCHATURE OF DRIVLER / DRIVE STONE NAME 2-13-15	SNA A		1 11		= -11/-1/-					
CICNIATURE OF DRIVEER / BRINE CICNIES MAME	6. SI	Jee	1/8	Hans						
SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE			SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE	· ·			

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER (-3832 POD NUMBER POD 2 TRN NUMBER 555/25

LOCATION 25.30.28.3343 PAGE 2 OF 2

Locator Tool Report

General Information:

Application ID:27

Date: 05-28-2015

Time: 12:01:24

WR File Number: C-03782-POD1

Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO EXPLORATORY WELL DRILLERS RECORD

Applicant Last Name: RENUMBERED C-3832-POD2

GW Basin: CARLSBAD County: EDDY

*Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SW 1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 28, Township 25S, Range 30E.

Coordinate System Details:

Geographic Coordinates:

Latitude:

32 Degrees 5 Minutes 40.1 Seconds N

Longitude:

103 Degrees 53 Minutes 32.2 Seconds W

Universal Transverse Mercator Zone: 13N

NAD 1983(92) (Meters) NAD 1983(92) (Survey Feet) NAD 1927 (Meters)

N: 3,551,444 E: 604,526 N: 11,651,697 E: 1,983,348 N: 3,551,243 E: 604,573

NAD 1927 (Survey Feet) N: 11,651,036 E: 1,983,505

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters) NAD 1983(92) (Survey Feet) NAD 1927 (Meters) NAD 1927 (Survey Feet)

N: 121,428 N: 398,385 N: 121,410

E: 206,630 E: 677,920 E: 194,077

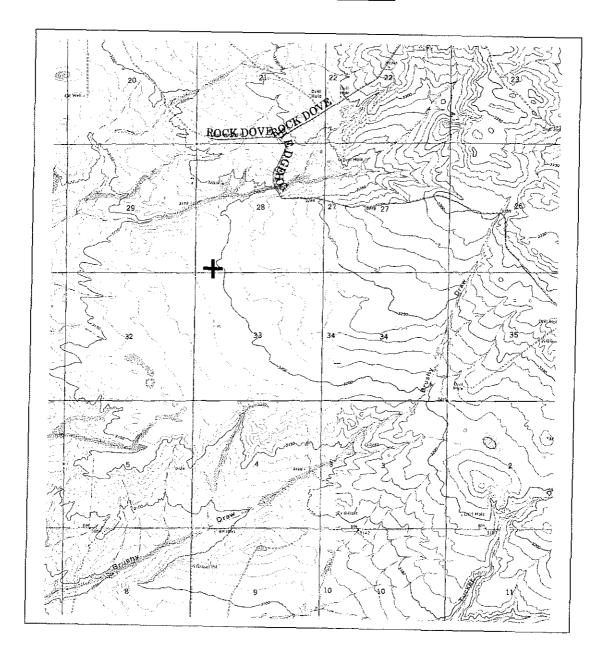
N: 398,327

E: 636,734



NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report





WR File Number: C-03782-POD1 Scale: 1:47,832

Northing/Easting: UTM83(92) (Meter): N: 3,551,444

GW Basin: Carlsbad

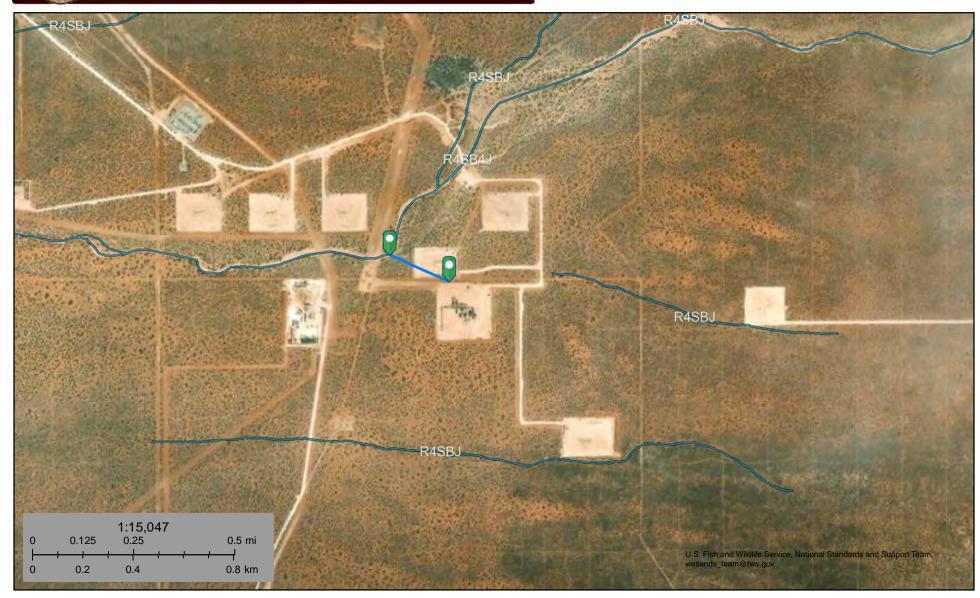
Page 2 of 2

Print Date: 05/28/2015

E: 604,526



Intermittent 720 feet



December 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

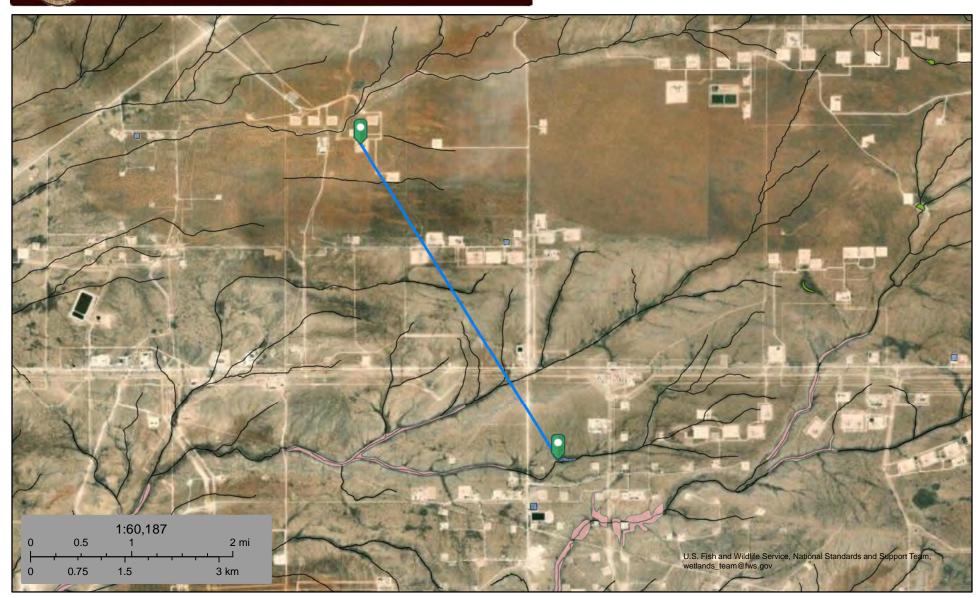
Other

Riverine

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



Pond 16,426 feet



December 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

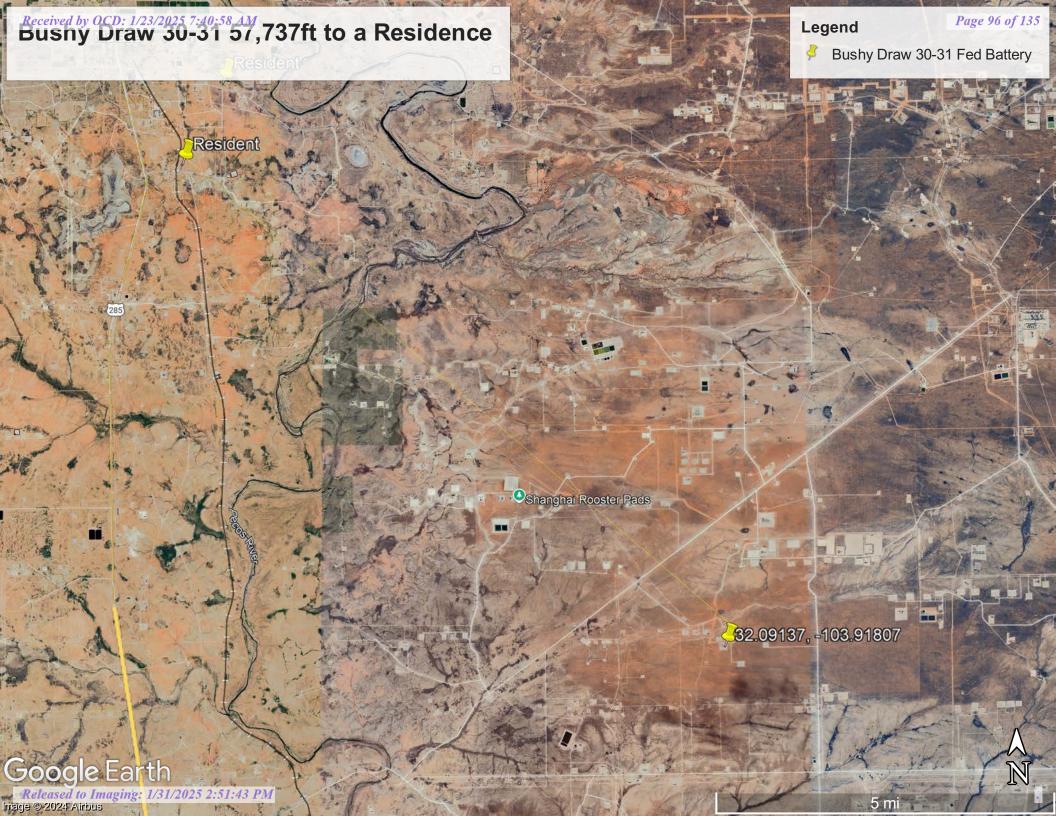
Freshwater Pond

Lake

Other

Riverine

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



Active & Inactive Points of Diversion

(with Ownership Information)

			(acre ft per annum)					and no	D has been replaced longer serves this file, file is closed)		(quart (quart	ers are 1 ers are s	=NW 2= mallest t	:NE 3=5 o larges	5W 4=SE; st)	1	(NAD83 UTM	in meters)		(meters)
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	x	Y	Map	Distance
<u>C 04394</u>	CUB	MON	0.000	XTO ENERGY INC	ED	C 04394 POD1	NA				SW	NE	SE	19	25S	30E	602315.9	3553464.1	•	2,342.6
C 03782	CUB	EXP	0.000	BOPCO, L.P.	ED	C 03782 POD1				Artesian	SE	SW	SW	28	255	30E	604525.7	3551444.2	•	2,522.1
C 01360	CUB	IND	0.000	EL PASO NATURAL GAS	ED	<u>C 01360</u>				Shallow	SE	SW	SW	05	26S	30E	602996.6	3548152.0	•	3,142.9
<u>C 03448</u>	С	PRO	0.000	DEVON ENERGY CORP.	ED	<u>C 01360</u>				Shallow	SE	SW	SW	05	265	30E	602996.6	3548152.0	•	3,142.9
<u>C 03449</u>	С	PRO	0.000	OGX RESOURCES	ED	<u>C 01360</u>				Shallow	SE	SW	SW	05	265	30E	602996.6	3548152.0	•	3,142.9
<u>C 04705</u>	CUB	MON	0.000	DEVON ENERGY	ED	C 04705 POD1	NA				NE	NW	NE	35	25\$	29E	598866.5	3551191.8	•	3,155.9
<u>C 01361</u>	CUB	IND	0.000	EL PASO NATURAL GAS	ED	<u>C 01361</u>				Shallow	SW	SE	SW	05	265	30E	603240.4	3548157.5	•	3,221.8
C 03581	CUB	EXP	0.000	JANEY LOREE PASCHAL	ED	C 03581 POD1				Shallow	SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3,646.0
C 03608	С	PRO	0.000	DEVON ENERGY CORP.	ED	C 03581 POD1				Shallow	SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3,646.0
C 04612	С	STK	3.000	JANEY LOREE PASCHALL DBA PASCHAL RANCH LLC	ED	C 04612 C-3581	NA				SE	SE	SE	05	265	30E	604298.2	3548291.8	•	3,646.0
<u>C 03483</u>	С	STK	3.000	PASCHAL RANCH LLC	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4	•	3,676.5
C 03501	С	PRO	0.000	DEVON ENERGY CO.	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4	•	3,676.5
C 03502	С	PRO	0.000	DEVON ENERGY CO	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	26S	30E	604296.3	3548251.4	•	3,676.5
<u>C 03503</u>	С	PRO	0.000	DEVON ENERGY CO.	ED	<u>C 03483</u>				Shallow	SE	SE	SE	05	265	30E	604296.3	3548251.4	•	3,676.5
<u>C 03483</u>	С	STK	3.000	PASCHAL RANCH LLC	ED	C 03483 POD3					SE	SW	SW	04	265	30E	604557.8	3548291.0	•	3,814.1
					ED	C 03483 POD2						SW	SW	04	265	30E	604565.8	3548253.6	•	3,847.4
<u>C 04851</u>	CUB	MON	0.000	COG OPERATING LLC	ED	C 04851 POD1	NA				NW	NE	NW	24	25S	29E	599946.3	3554519.9	•	3,966.4
<u>C 02441</u>	С	STK	0.000	BYRON W PASCHAL	ED	<u>C 02441</u>								21	25S	30E	605077.0	3553783.0 *	•	4,039.6
<u>C 04758</u>	CUB	MON	0.000	XTO ENERGY, INC.	ED	C 04758 POD1	NA				SE	SE	SE	17	25S	30E	604096.5	3554651.8	•	4,078.8
C 04558	CUB	MON	0.000	XTO ENERGY INC	ED	C 04558 POD1	NA				SW	SE	SW	23	25S	29E	598353.7	3553039.4	•	4,130.9
<u>C 04730</u>	CUB	MON	0.000	XTO ENERGY, INC	ED	C 04730 POD1	NA				SW	SW	NW	27	25S	30E	606032.8	3552256.2	•	4,163.2
<u>C 04529</u>	CUB	MON	0.000	XTO ENERGY INC	ED	C 04529 POD1	NA				NW	SW	NW	18	25\$	30E	601076.9	3555733.7	•	4,689.9
<u>C 04755</u>	CUB	MON	0.000	DEVON ENERGY	ED	C 04755 POD2	NA				SE	NW	SW	12	265	29E	599857.0	3546955.1	•	4,711.8
<u>C 04720</u>	CUB	EXP	0.000	DEVON ENERGY	ED	C 04720 POD1	NA				SE	NW	SW	12	265	29E	599807.3	3546968.8	•	4,722.7
<u>C 04755</u>	CUB	MON	0.000	DEVON ENERGY	ED	<u>C 04755 POD1</u>	NA				SE	NW	SW	12	265	29E	599787.4	3546971.4	•	4,729.8
C 04720	CUB	EXP	0.000	DEVON ENERGY	ED	C 04720 POD4	NA				SE	NW	SW	12	26S	29E	599812.4	3546955.0	•	4,732.5
					ED	C 04720 POD2	NA				SE				265		599835.7	3546932.1	•	4,742.0
					ED	C 04720 POD3	NA				SE	NW	SW	12	26S	29E	599835.7	3546932.1	•	4,742.0
					ED	C 04720 POD5	NA				SE		SW					3546920.4	•	4,750.4
0017	CUE	Moss	0.000	DEVON ENERGY	ED	C 04725 POD3	NA				SE				265			3546880.9	•	4,777.5
C 04755	CUB	MON	0.000	DEVON ENERGY	ED	C 04755 POD3	NA				SE	NW	SW	12	265	29E	599747.8	3546862.3	•	4,844.7

Record Count: 31

Filters Applied:

Point of Diversion Summary

	1=NW 2=NE 3 are smallest to				NAD83 UTM	in meters				
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	х	Υ	Мар
	C 01360	SE	SW	SW	05	26S	30E	602996.6	3548152.0	•

* UTM location was derived from PLSS - see Help

Driller License:	95	Driller Company:	FOLK DRILLING CO.		
Driller Name:					
Drill Start Date:	1952-04-26	Drill Finish Date:	1952-05-15	Plug Date:	
Log File Date:	1953-11-17	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	12.75	Depth Well:	770	Depth Water:	173

Water Bearing Stratifications:

Тор	Bottom	Description
210	220	Sandstone/Gravel/Conglomerate
580	585	Sandstone/Gravel/Conglomerate
665	710	Sandstone/Gravel/Conglomerate
725	770	Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom
289
770

Meter Information

Meter Number:	16557	Meter Make:	SIEMENS
Meter Serial Number:	L1254823	Meter Multiplier:	100.0000
Number of Dials:	8	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2014-07-01	2014	234997.000	Α	RPT		0.000	
2014-09-30	2014	354169.000	Α	RPT		36.573	
2014-11-20	2014	7281000.000	Α	RPT		0.000	
2014-12-31	2014	11430100.000	Α	RPT		12.733	
2015-04-01	2015	22535200.000	Α	RPT		34.080	
2015-07-01	2015	35821800.000	Α	RPT		40.775	
2015-10-05	2015	46631200.000	Α	RPT		33.173	
2015-12-31	2015	55653200.000	Α	RPT		27.688	
2016-01-31	2016	58047600.000	Α	RPT		7.348	
2016-02-29	2016	61081100.000	Α	RPT		9.309	
2016-03-31	2016	62593100.000	Α	RPT		4.640	
2016-06-30	2016	71642600.000	Α	RPT		27.772	
2016-10-03	2016	81998399.000	Α	RPT		31.781	
2016-12-31	2016	90558600.000	Α	RPT		26.270	
2019-04-04	2019	164290087.000	Α	RPT		226.274	
2019-10-02	2019	790380.000	Α	RPT	METER CHANGE OUT 07/2019	0.000	
2020-01-02	2020	1733720.000	Α	RPT		289.500	
2021-04-07	2021	36814117.000	Α	WEB		10765.779	X
2021-07-27	2021	36836238.000	Α	WEB		6.789	Χ
2021-10-04	2021	36844496.000	Α	WEB		2.534	Χ
2021-12-31	2021	36847463.000	Α	WEB		0.911	X

YTD Meter Amounts:

Year	Amount
2014	49.306
2015	135.716
2016	107.120

Year	Amount
2019	226.274
2020	289.500
2021	10776.013

Meter Information

Meter Number:	16558	Meter Make:	MASTERMETER
Meter Serial Number:	32530403	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Monthly (No Reading Expected)

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2014-10-01	2014	354169.000	Α	RPT		0.000	
2014-11-20	2014	415555.000	А	RPT		18.839	
2014-11-21	2014	72810.000	А	RPT		0.000	
2014-12-31	2014	112178.000	Α	RPT		12.082	
2015-02-01	2015	147039.000	А	RPT		10.698	
2015-03-02	2015	188133.000	Α	RPT		12.611	
2015-04-01	2015	224102.000	Α	RPT		11.038	
2015-04-30	2015	270723.000	Α	RPT		14.307	
2015-05-31	2015	315628.000	Α	tw		13.781	
2015-07-01	2015	369075.000	Α	tw		16.402	
2015-08-01	2015	395528.000	А	tw		8.118	
2015-08-31	2015	455361.000	Α	tw		18.362	
2015-10-01	2015	466312.000	Α	RPT		3.361	

YTD Meter Amounts:

Year	Amount
2014	30.921
2015	108.678

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

12/11/24 8:01 AM MST Point of Diversion Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | <u>Disclaimer</u> | <u>Contact Us</u> | <u>Help</u> | <u>Home</u> |

Water Right Summary



WR File Number: C 01360 Subbasin: **Cross Reference: Primary Purpose:** IND INDUSTRIAL **Primary Status:** DCL Declaration **Total Acres:** 0.000 Subfile: Header: **Total Diversion:** 0.000 Cause/Case: EL PASO NATURAL GAS Owner: Contact: PAULA JOY

Documents on File

(acre-feet per annum)

460091 COWNF 2010-05-26 CHG PRC C 01360 T 0.000 0.000 203459 DCL 1953-11-17 DCL PRC C 01360 T 0.000 0.000	Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
203459 DCL 1953-11-17 DCL PRC C 01360 T 0.000 0.000		<u>460091</u>	COWNF	2010-05-26	CHG	PRC	C 01360	Т	0.000	0.000	
		203459	DCL	1953-11-17	DCL	PRC	C 01360	Т	0.000	0.000	

Current Points of Diversion

POD Number We	ell Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	x	Υ	Мар	Other Location Desc
<u>C 01360</u>		Shallow	SE	SW	SW	05	26S	30E	602996.6	3548152.0	•	

* UTM location was derived from PLSS - see Help

Place of Use

Q256 Q64	Q16 C	Q4 :	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
						0.000	0.000		IND		DCL	NO PLACE OF USE GIVEN.

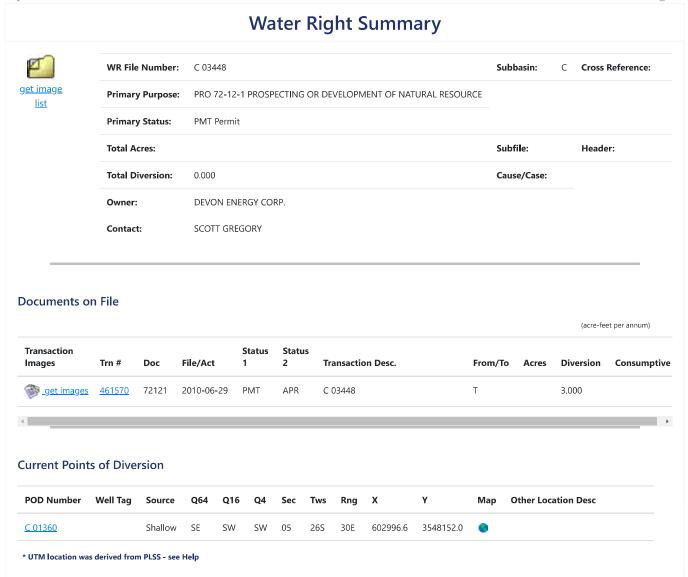
Source

Acres Diver	sion CU Us	Priority Sour	ce Description
0.000 0.000	INI) GW	

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

12/11/24 7:54 AM MST Water Rights Summary

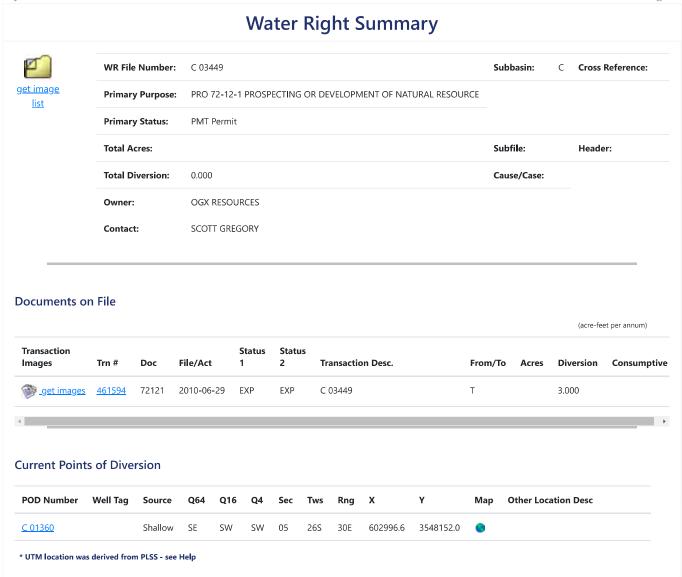
©2024 New Mexico Office of the State Engineer, All Rights Reserved. | <u>Disclaimer</u> | <u>Contact Us</u> | <u>Help</u> | <u>Home</u> |



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

12/11/24 8:07 AM MST Water Rights Summary

 $@2024 \ New \ Mexico \ Office \ of the \ State \ Engineer, \ All \ Rights \ Reserved. \ | \ \underline{Disclaimer} \ | \ \underline{Contact \ Us} \ | \ \underline{Help} \ | \ \underline{Home} \ |$



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

12/11/24 8:08 AM MST Water Rights Summary

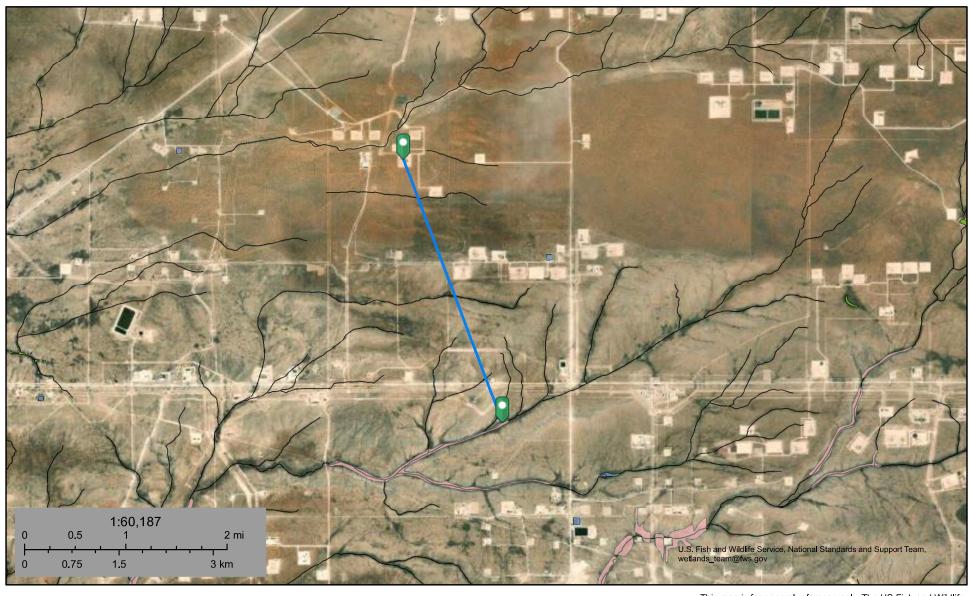
 $@2024 \ New \ Mexico \ Office \ of the \ State \ Engineer, \ All \ Rights \ Reserved. \ | \ \underline{Disclaimer} \ | \ \underline{Contact \ Us} \ | \ \underline{Help} \ | \ \underline{Home} \ |$



U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetland 12,393 feet



December 11, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

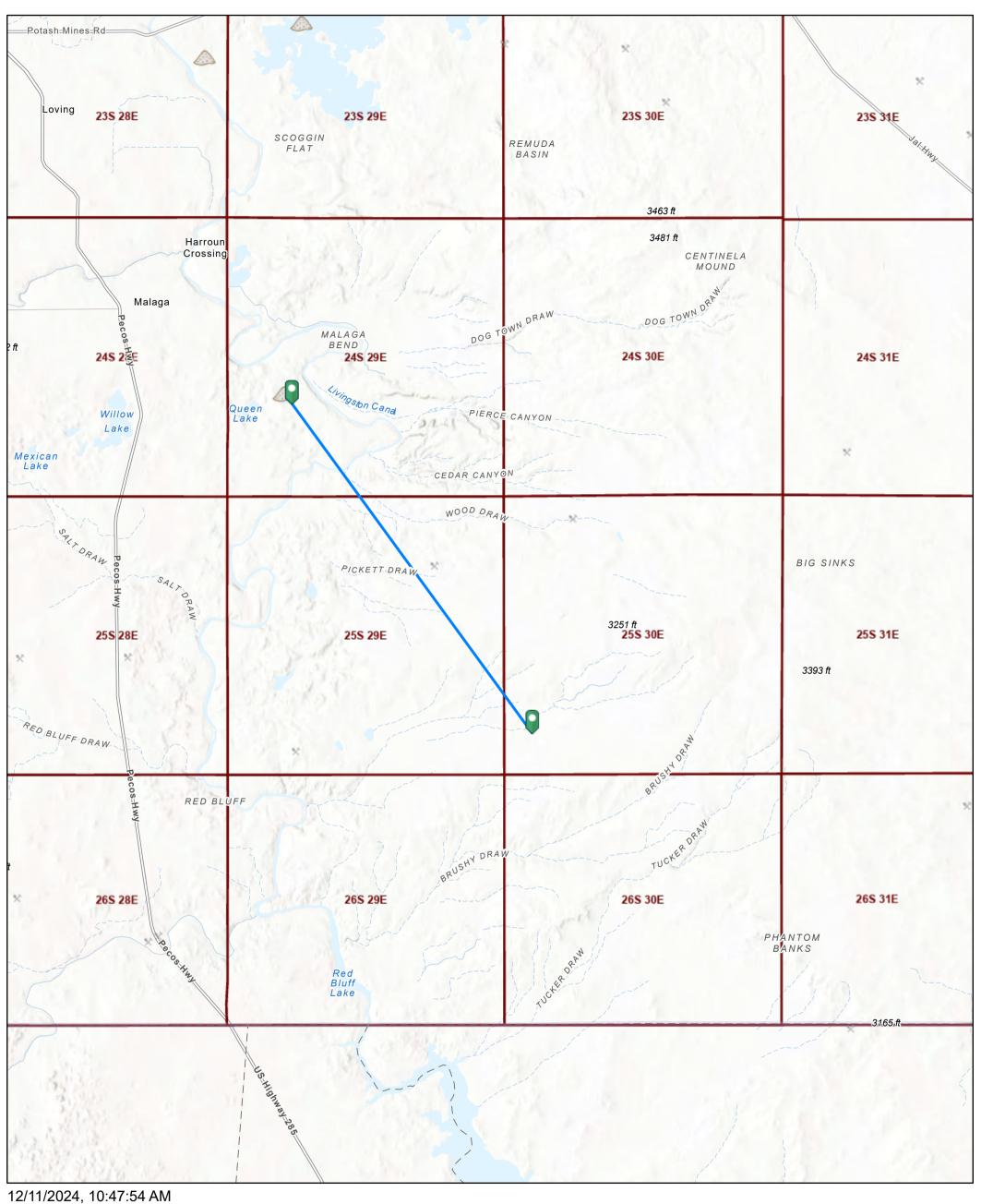


Other



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.

Salt Mine 46,820 feet



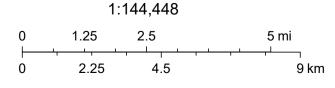
Registered Mines

Aggregate, Stone etc.

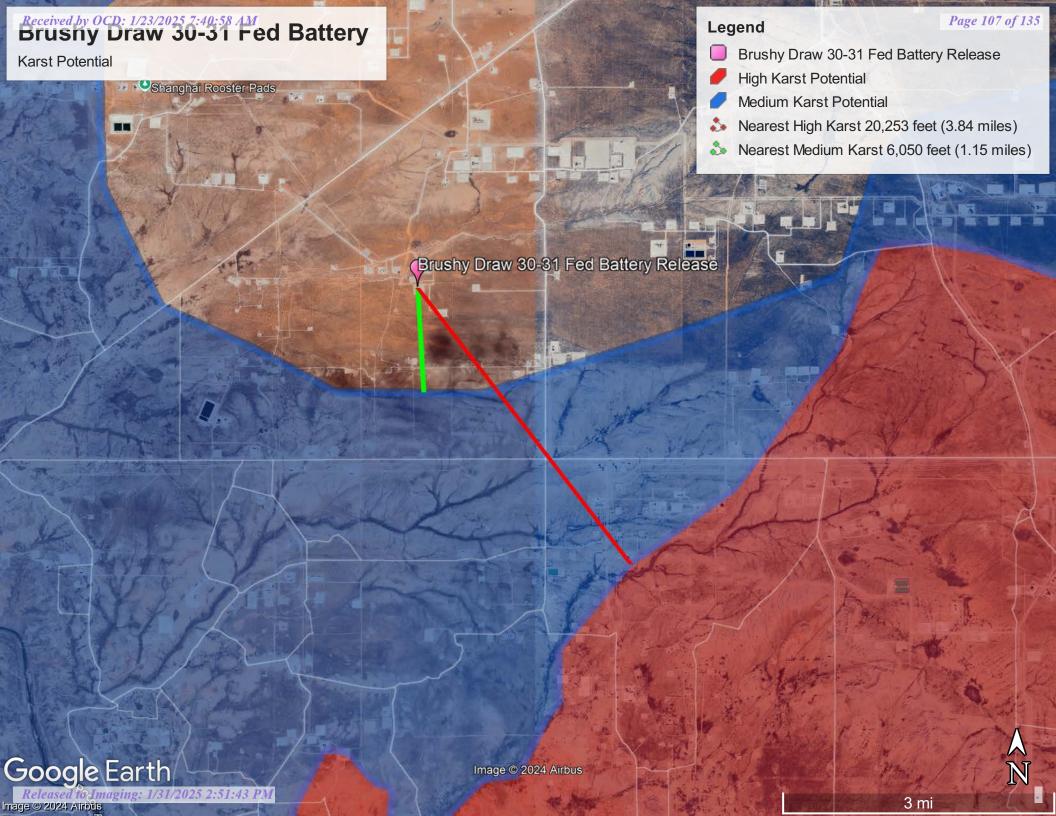
Aggregate, Stone etc.

Salt

PLSS Townships



Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, BLM



National Flood Hazard Layer FIRMette





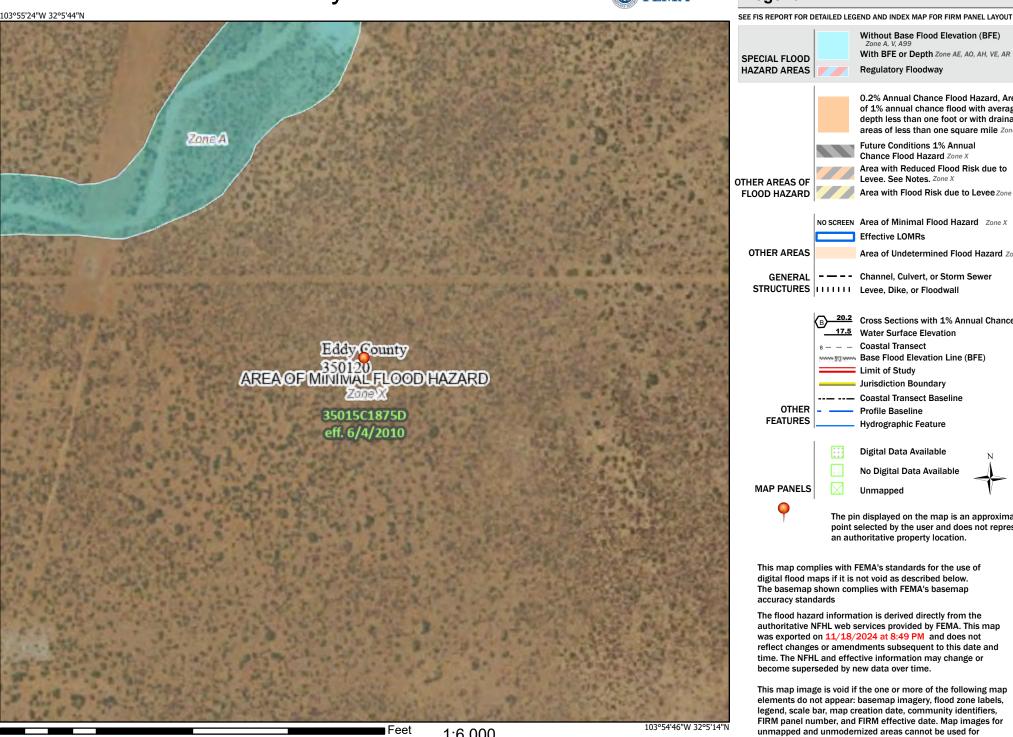
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D **GENERAL** - - - Channel, Culvert, or Storm Sewer STRUCTURES | LILLILL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

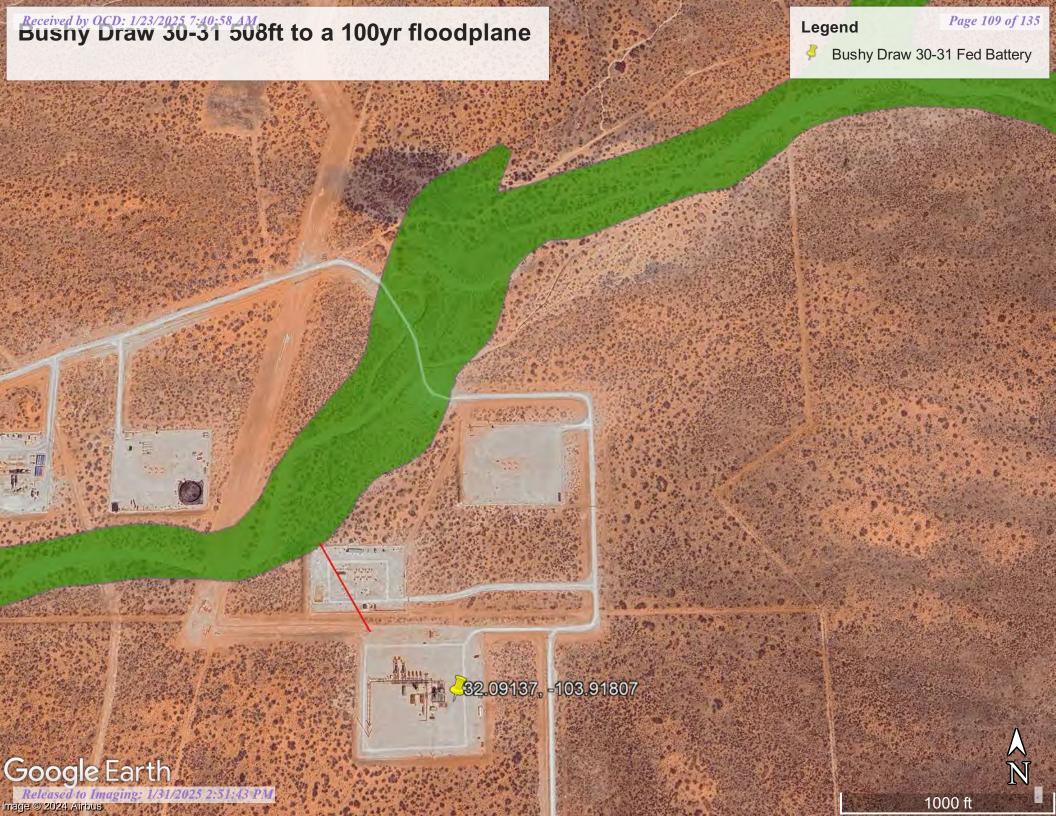
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/18/2024 at 8:49 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



OReleas 250 Im 5 9 Ang: 1/31/2025 2991:43 PM

2,000





VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico





MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot Severely Eroded Spot

Sinkhole

Slide or Slip Sodic Spot

Spoil Area Stony Spot

å

Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

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

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

Map Unit Legend (11. Bushy Draw 30-31 Soil Type)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ВВ	Berino complex, 0 to 3 percent slopes, eroded	3.7	100.0%
Totals for Area of Interest		3.7	100.0%

Map Unit Descriptions (11. Bushy Draw 30-31 Soil Type)

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

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

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

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

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

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

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

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

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

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

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

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43 Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent Pajarito and similar soils: 25 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Cacique

Percent of map unit: 4 percent

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Soil Information for All Uses

Ecological Sites

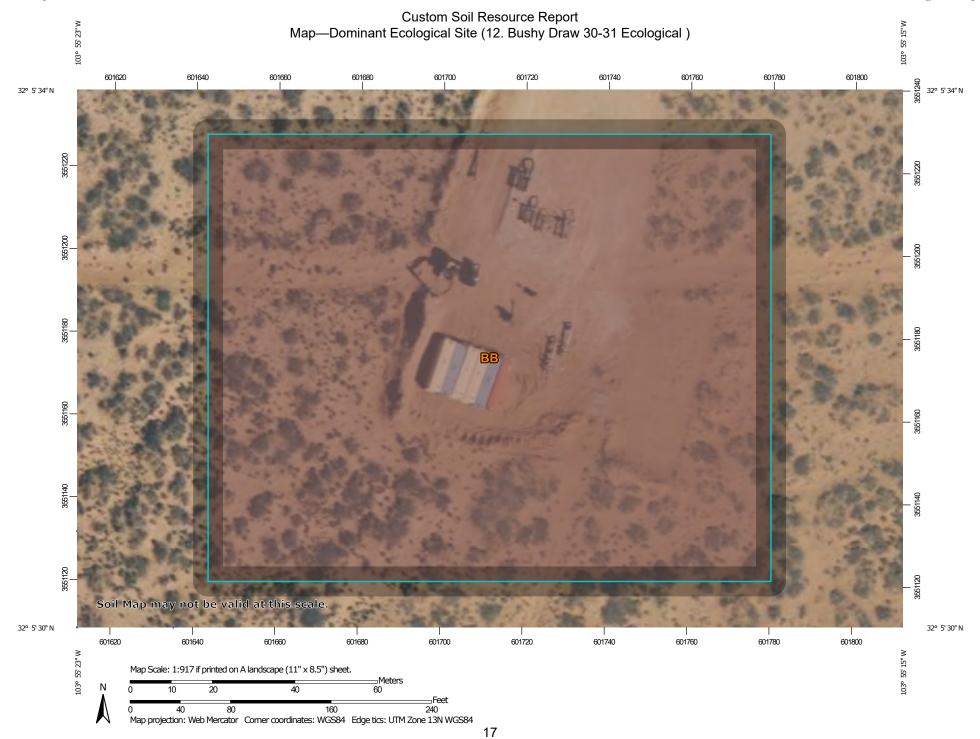
Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

All Ecological Sites — (12. Bushy Draw 30-31 Ecological)

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

R070BD003NM

Not rated or not available

Soil Rating Lines

R070BD003NM

Not rated or not available

Soil Rating Points

■ R070BD003NM

Not rated or not available

Water Features

Streams and Canals

Transportation

+++ Rails

Interstate Highways

-

US Routes



Major Roads



Local Roads

Background

1

Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024

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

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

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

Table—Ecological Sites by Map Unit Component (12. Bushy Draw 30-31 Ecological)

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
ВВ	Berino complex, 0 to 3 percent slopes,	Berino (60%)	R070BD003NM — Loamy Sand	3.7	100.0%
		R070BD003NM — Loamy Sand			
		Cacique (4%)	R070BD004NM — Sandy		
		Pajarito (4%)	R070BD003NM — Loamy Sand		
		Wink (4%)	R070BD003NM — Loamy Sand		
		Kermit (3%)	R070BD005NM — Deep Sand		
Totals for Area of In	terest	1		3.7	100.0%



Ecological site R070BD003NM Loamy Sand

Accessed: 09/02/2024

General information

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

Figure 1. Mapped extent

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

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont(2) Alluvial fan(3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

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

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

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

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest 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 moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

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

Characteristic soils are:

Maljamar

Berino

Parjarito

Palomas

Wink

Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand(2) Fine sandy loam(3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview

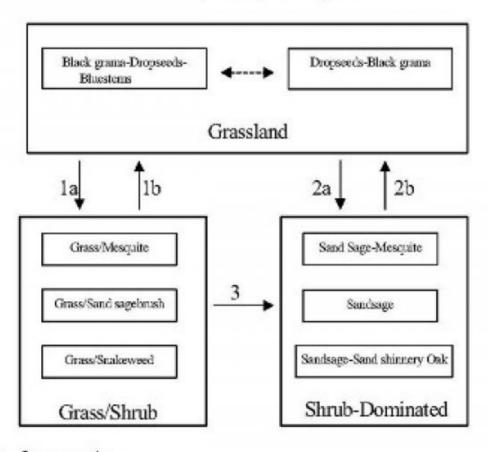
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):

MLRA-42, SD-3, Loamy Sand



- Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing
- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.
- Continued loss of grass cover, erosion.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%			
Shrub/vine/liana foliar cover	0%			
Grass/grasslike foliar cover	28%			
Forb foliar cover	0%			
Non-vascular plants	0%			
Biological crusts	0%			
Litter	50%			
Surface fragments >0.25" and <=3"				
Surface fragments >3"	0%			
Bedrock	0%			
Water	0%			
Bare ground	22%			

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

J	an	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
C)	0	3	5	10	10	25	30	12	5	0	0

State 2
Grass/Shrub

Community 2.1 Grass/Shrub





*Black grams/Mesquite community, with some dropseeds, threeours, and scattered sand shimory oak *Oracs cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, 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 a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn and mesquite/snakeweed abundance

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cove
Grass	/Grasslike	•			
1	Warm Season	61–123			
	little bluestem	scsc	Schizachyrium scoparium	61–123	_
2	Warm Season		-	37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	_
3	Warm Season	•		37–61	
	cane bluestem	BOBA3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season		-	123–184	
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season		-	123–184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	123–184	_
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	_
6	Warm Season	•		123–184	
	spike dropseed	SPCO4	Sporobolus contractus	123–184	_
	sand dropseed	SPCR	Sporobolus cryptandrus	123–184	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	_
7	Warm Season			61–123	
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	_
	Arizona cottontop	DICA8	Digitaria californica	61–123	_
9	Other Perennial Grasses			37–61	
	Grass, perennial	2GP	Grass, perennial	37–61	_
Shrub	/Vine			•	
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	37–61	_
	giant dropseed	SPGI	Sporobolus giganteus	37–61	_
10	Shrub	•	•	61–123	

13. Bushy Draw 30-31 Geology



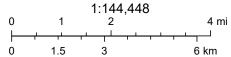
11/18/2024, 2:41:54 PM

Lithologic Units

Playa—Alluvium and evaporite deposits (Holocene)

Water—Perenial standing water

Qa—Alluvium (Holocene to upper Pleistocene)



Esri, NASA, NGA, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 423861

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	423861
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500254282
Incident Name	NAPP2500254282 BRUSHY DRAW 30-31 FEDERAL BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2207332396] BRUSHY DRAW 30-31 FED BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BRUSHY DRAW 30-31 FEDERAL BATTERY
Date Release Discovered	01/01/2025
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Dump Line Produced Water Released: 47 BBL Recovered: 10 BBL Lost: 37 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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 2

Action 423861

QUESTIONS (con	tinuea)
----------------	---------

Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	423861
	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.	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 s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of the dor if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com

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 3

Action 423861

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	423861
	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)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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		
Attach a comprehensive report de	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.	
Have the lateral and vertical extents of contamination been fully delineated Yes		
Was this release entirely contained within a lined containment area No		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 CI B)	12700
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	31
GRO+DRO	(EPA SW-846 Method 8015M)	31
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date wi	II the remediation commence	01/20/2025
On what date will (or did) the	he final sampling or liner inspection occur	04/20/2025
On what date will (or was) the remediation complete(d) 04		04/20/2025
What is the estimated surface area (in square feet) that will be reclaimed		0
What is the estimated volu	me (in cubic yards) that will be reclaimed	0
What is the estimated surfa	ace area (in square feet) that will be remediated	8971
What is the estimated volu	me (in cubic yards) that will be remediated	333
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.

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 423861

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	423861
	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	LEA LAND LANDFILL [fEEM0112342028]
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.

er 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.

Name: Colton Brown Title: Environmental Advisor I hereby agree and sign off to the above statement Email: colton.s.brown@exxonmobil.com Date: 01/23/2025

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.

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 5

Action 423861

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	423861
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Requesting a remediation closure approval with this submission

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 423861

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 423861 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)			
	[0-141] one onar mediation than other (0-141-v-1 tan)			
QUESTIONS				
Sampling Event Information				
Last sampling notification (C-141N) recorded	{Unavailable.}			
Remediation Closure Request				
Only analysis the synations in this group if earling remodiation playing for this release because all remodiation stone bays been completed				

No

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 423861

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	423861
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	1/31/2025
bhall	Remediation excavation(s) must be advanced until the closure criteria are met. Be advised that the report states "and extending to the pasture off the north edge of the pad will be excavated to closure criteria." but there were no delineation samples collected in the pasture areas located off the north edge of the pad. These areas must be addressed during remediation and confirmation/final samples must be collected.	1/31/2025
bhall	Confirmation/final samples must be 5-point composite samples representative of no more than 200 square feet.	1/31/2025
bhall	Submit a complete and accurate report through the OCD permitting website by 5/2/2025.	1/31/2025