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February 28, 2025

Mike Bratcher
District Supervisor
Oil Conservation District
811 S. First Street
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**Re: Incident Closure Report
Caza Operating, LLC
Sioux 36 State 1H-5H Production Facility
Unit D, Section 36, Township 25S, Range 35E
Site Coordinates: 32.0937937, -103.3284733
Lea County, New Mexico
Incident ID: nAPP2434432746**

Introduction

NTG Environmental, LLC (NTGE), on behalf of Caza Operating, LLC (Caza), submits this Incident Closure Report to the New Mexico Oil Conservation Division (NMOCD). This report provides documentation of initial soil delineation, sampling analysis, and remediation activities conducted to date in the affected areas at the Sioux 36 State 1H-5H Production Facility (Site). The Site is in Unit Letter D, Section 36, of Township 25 South and Range 35 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.0937937° N Latitude and -103.3284733° W Longitude. The Site location with respect to the nearest town is shown on Figure 1 and the topography of the area is shown on Figure 2.

Background

Based on the initial C-141 submitted by Caza and obtained by the New Mexico Oil Conservation District (NMOCD), the release was discovered on December 7, 2024. The release was the result of an equipment failure, resulting in the release of eight (8) barrels (bbls) of crude oil, of which zero (0) bbls were recovered. Upon discovery the well was shut-in, and the area was secure. The release area is shown in Figure 3.

Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a ½-mile radius of the Site. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or

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distance from the Site. According to the Karst Potential Map, the Site is located within a Low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are attached to the report.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Low Karst	Unknown

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

Site Assessment Activities

On January 13, 2025, NTGE conducted site assessment activities to determine the extent of the release impacts. A total of three (3) vertical sample points (i.e., TP-1 - TP-3) were installed at depths ranging from zero to eight (1-8) feet below ground surface (ft bgs). As well as nine (9) horizontal sample points were installed at depths ranging from zero to half a (0-0.5) ft bgs.

Site assessment activities were conducted to fully characterize and delineate the extent of impacts resulting from the release. Soil samples were collected from the Site using a backhoe and submitted to an accredited laboratory for chemical analysis. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) (by EPA Method 8021B), total petroleum hydrocarbon (TPH) (by EPA method 8015 modified), and chloride (by method SM4500CL-B). The combined analytical results of the Site assessment activities are provided in Table 1. Soil sample locations are shown in Figure 3. Laboratory reports containing analytical methods and chain-of-custody documents are attached. Analytical results from the initial assessment activities identified elevated TPH and/or chloride concentrations at the following sample points: TP-1 from one to five (1-5) ft bgs, TP-2 from one to three (1-3) ft bgs, and TP-3 from 1 to 2 (1-2) ft bgs. Analytical results of all the remaining samples were below the NMOCD regulatory limits for all analytes.

Excavation, Waste Management and Confirmation Sampling

Based on the Site assessment activities, Caza proceeded with the remedial action activities at the Site to include the excavation and disposal of impacted soils above NMOCD regulatory limits. The Site was excavated to depths ranging from two and a half (2.5) to six and half (6.5) ft bgs. Upon completion of the excavation, confirmation samples were collected from the excavation's sidewalls and base. The confirmation samples were collected in accordance with the one sample per 200 square feet (sq ft) guideline established in the NMOCD regulatory criteria.

On January 27, 2025, a total of eighty-one (81) confirmation samples were collected. Sixty-three (63) confirmation samples (i.e., CS-1 – CS-63) were collected from the excavation base as well as eighteen (18) confirmation samples (i.e., SW-1 – SW-18) were collected from the excavation sidewalls. Analytical results of the following confirmation samples were above the NMOCD regulatory limits for chlorides and/or TPH: CS-7, CS-8, CS-19, CS-60, and SW-15.

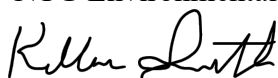
On January 31, 2025, after further excavation activities, an additional six (6) confirmation samples were collected. Four (4) confirmation samples (i.e., CS-7, CS-8, CS-19 and CS-60) were collected from the excavations base as well as two (2) confirmation samples (i.e., SW-15A and SW-19) were collected from the excavation sidewalls. Analytical results of all the confirmation samples were below the NMOCD regulatory limits for all analytes.

The excavation extent, excavation depths, and confirmation sample locations are shown on Figure 4. A total of approximately 1,850 cubic yards (yd³) of impacted soil was excavated and transported to a permitted disposal facility. All soil samples were analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (EPA method 300.0/SM 4500Cl⁻B). Copies of laboratory analysis and chain-of-custody documentation are attached. The analytical results are summarized in Table 2.

Closure Request

Based on the assessment and subsequent remedial action activities, the Site is compliant with NMOCD's regulatory requirements. Caza formally requests a closure for the Site (nAPP2424938520). If you have any questions regarding this report or need additional information, please contact us at (832) 374-0004.

Sincerely,
NTG Environmental



Kellan Smith
Project Manager

Attachments:

- Tables
- Figures
- Site Characterization Information
- Photographic Log
- Laboratory Reports

Tables

Table 1
Summary of Soil Analytical Data - Delineation Samples
Sioux 36 State 1H-5H Production Facility
Caza Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(C6-C10)	(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC													
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg			
Vertical Delineation Samples													
TP-1	1/13/2025	1'	<0.050	0.110	0.054	<0.150	0.306	103	5,440	5,543	1,080	6,623	976
	1/13/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	1/13/2025	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
	1/13/2025	4'	<0.050	0.108	0.228	0.969	1.30	35.5	194	229.5	22.9	252.4	464
	1/13/2025	5'	0.515	7.51	4.52	16.2	28.8	694	2,300	2,994	495	3,489	768
	1/13/2025	6'	<0.050	0.089	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
	1/13/2025	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	38.1	38.1	<10.0	38.1	480
	1/13/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	37.6	37.6	<10.0	37.6	400
TP-2	1/13/2025	1'	<0.050	<0.050	<0.050	0.155	<0.300	<50.0	15,800	15,880	3,560	19,440	14,000
	1/13/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	1/13/2025	3'	<0.050	<0.050	<0.050	0.191	<0.300	<10.0	148	148	11.2	159.2	80.0
	1/13/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.6	25.6	<10.0	25.6	96.0
	1/13/2025	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	1/13/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	1/13/2025	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	1/13/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
TP-3	1/13/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3,300	3,300	796	4,096	13,000
	1/13/2025	2'	<0.050	2.75	4.66	20.1	27.5	599	3,090	3,689	479	4,168	432
	1/13/2025	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	1/13/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	1/13/2025	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	1/13/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	1/13/2025	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	1/13/2025	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
Horizontal Delineation Samples													
H-1	1/13/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,080
H-1A	1/13/2025	0-5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-2	1/13/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
H-3	1/13/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-4	1/13/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-5	1/13/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-6	1/13/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	195	195	30.5	225.5	112
H-6A	1/13/2025	0-5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-7	1/13/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
H-8	1/13/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	94.5	94.5	17.3	111.8	112
H-8A	1/13/2025	0-5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-9	1/13/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<50.0	<50.0	<50.0	<50.0	128

Table 1
Summary of Soil Analytical Data - Delineation Samples
Sioux 36 State 1H-5H Production Facility
Caza Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg

Notes:

1. Values reported in mg/kg
2. < = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B

5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. --- Not Analyzed

SP-1 Sample Point Excavated

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Sioux 36 State 1H-5H Production Facility
Caza Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC													
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg			
Base Confirmation Samples													
CS-1	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-2	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-3	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-4	1/27/2025	6.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-5	1/27/2025	6.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
CS-6	1/27/2025	6.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-7	1/27/2025	6.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	912
	1/31/2025	7.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-8	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
	1/31/2025	6.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-9	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-10	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.4	36.4	<10.0	36.4	368
CS-11	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.6	40.6	<10.0	40.6	80
CS-12	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.7	18.7	<10.0	18.7	240
CS-13	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.1	22.1	<10.0	22.1	112
CS-14	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.7	21.7	<10.0	21.7	272
CS-15	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-16	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-17	1/27/2025	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-18	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-19	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	134	134	14.5	148.5	272
	1/31/2025	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-20	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.7	36.7	<10.0	36.7	160
CS-21	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28.4	28.4	<10.0	28.4	64
CS-22	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-23	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-24	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-25	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-26	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-27	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-28	1/27/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-29	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-30	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	37.9	37.9	<10.0	37.9	112
CS-31	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	72.4	72.4	10.3	82.7	144
CS-32	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.1	25.1	<10.0	25.1	160
CS-33	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
CS-34	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28.6	28.6	<10.0	28.6	160
CS-35	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23	23	<10.0	23	400

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Sioux 36 State 1H-5H Production Facility
Caza Operating, LLC
Lea County, New Mexico

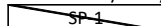
Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6- C-10)	DRO (C10- C28)	GRO + DRO	MRO (C28- C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
CS-36	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-37	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52.4	52.4	<10.0	52.4	64
CS-38	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.7	21.7	<10.0	21.7	80
CS-39	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41.6	41.6	<10.0	41.6	112
CS-40	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	66.6	66.6	<10.0	66.6	96
CS-41	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.6	14.6	<10.0	14.6	64
CS-42	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-43	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-44	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.4	26.4	<10.0	26.4	64
CS-45	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.8	10.8	<10.0	10.8	64
CS-46	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-47	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-48	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-49	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
CS-50	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-51	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-52	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.4	44.4	<10.0	44.4	64
CS-53	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-54	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-55	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
CS-56	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-57	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-58	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.8	14.8	<10.0	14.8	32
CS-59	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78.2	78.2	<10.0	78.2	48
CS-60	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	165	165	<10.0	165	64
	1/31/2025	3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-61	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.1	12.1	<10.0	12.1	32
CS-62	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	85.6	85.6	<10.0	85.6	48
CS-63	1/27/2025	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
Sidewall Confirmation Samples													
SW-1	1/27/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SW-2	1/27/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SW-3	1/27/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
SW-4	1/27/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-5	1/27/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-6	1/27/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW-7	1/27/2025	3.5-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-8	1/27/2025	3.5-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-9	1/27/2025	2.5-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Sioux 36 State 1H-5H Production Facility
Caza Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
SW-10	1/27/2025	2.5-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SW-11	1/27/2025	0-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SW-12	1/27/2025	0-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW-13	1/27/2025	2.5-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SW-14	1/27/2025	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-15	1/27/2025	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	360	360	70	430	48
SW-15 A	1/31/2025	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-16	1/27/2025	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SW-17	1/27/2025	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-18	1/27/2025	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-19	1/31/2025	5.5-6.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128

Notes:

- Values reported in mg/kg
- < = Value Less Than Reporting Limit (RL)
- Bold indicates Analyte Detected
- BTEX analyses by EPA Method SW 8021B

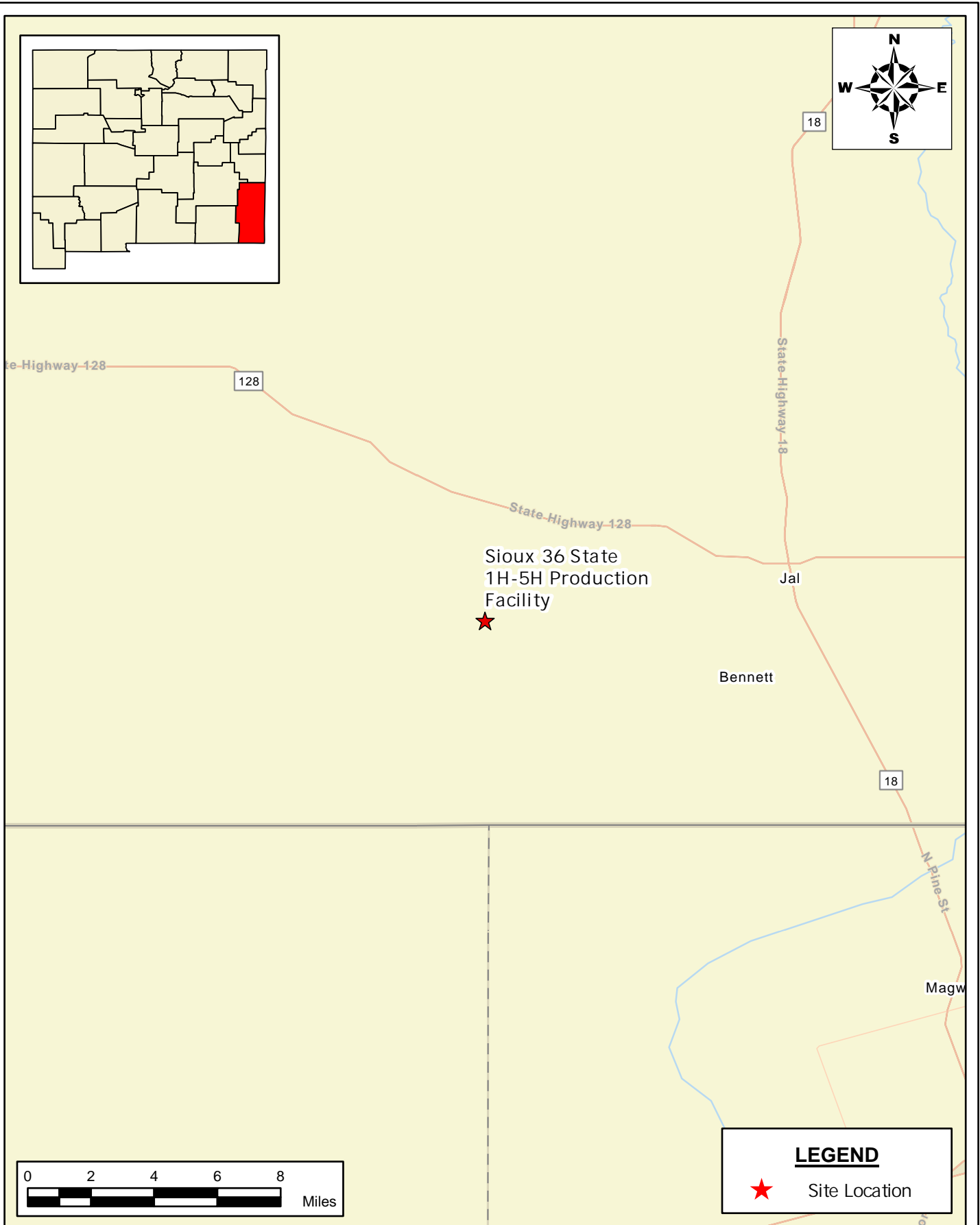


Sample Point Excavated

- TPH analyses by EPA Method SW 8015 Mod.
- GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
- Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
- Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
- Not Analyzed

Figures

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\CAZ\CAZ\RSO\249376 - Sioux 36 State 1H-5H Production Facility\7 - Figures\GIS\GEO\DATABASE\Figure_1_SLMMap_02262025.aprx



**SITE LOCATION MAP
INCIDENT CLOSURE REPORT
CAZA OPERATING, LLC**

SIoux 36 STATE 1H-5H PRODUCTION FACILITY
LEA COUNTY, NEW MEXICO
32.0937937, -103.3284733



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

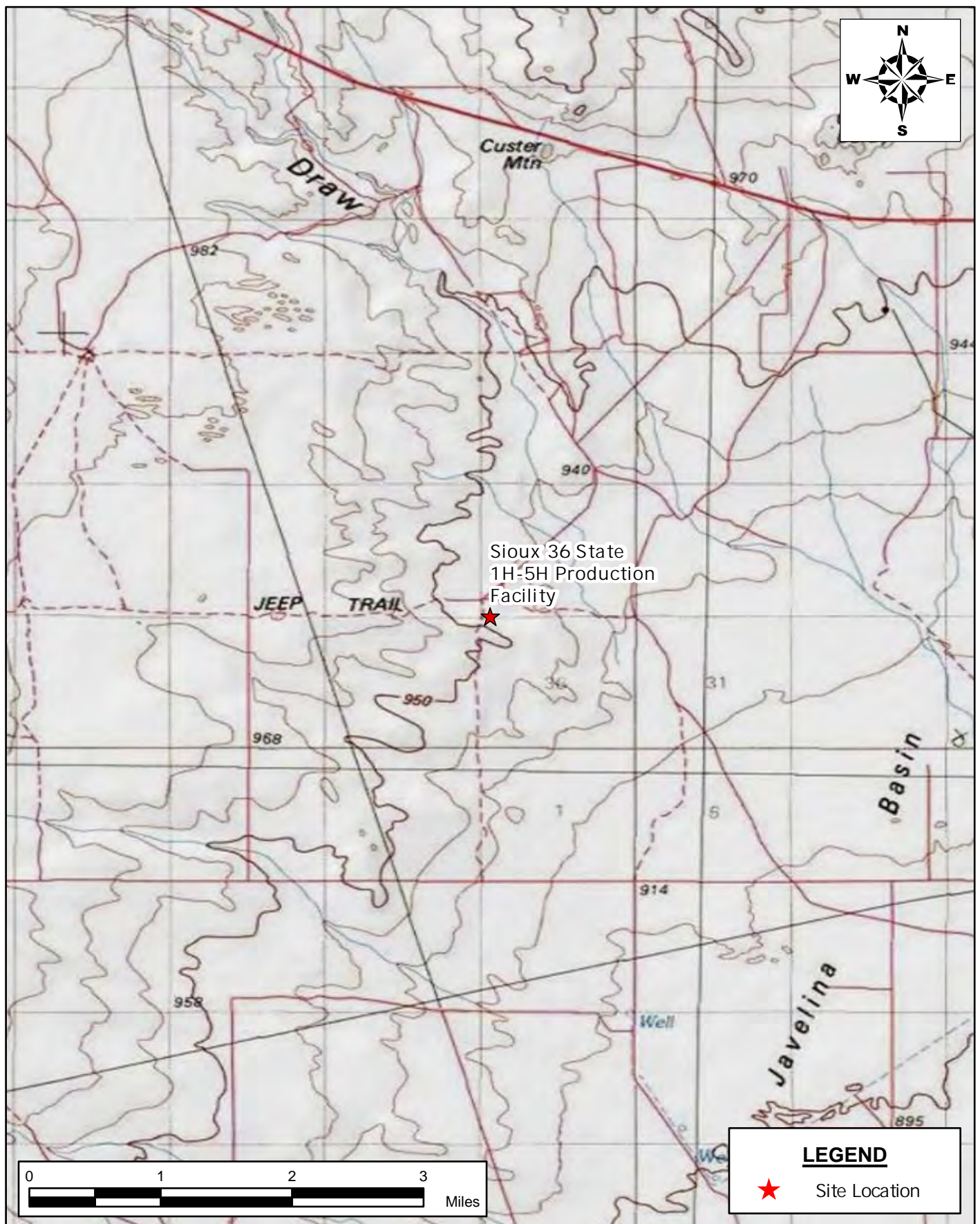
FIGURE 1

SHEET NUMBER:

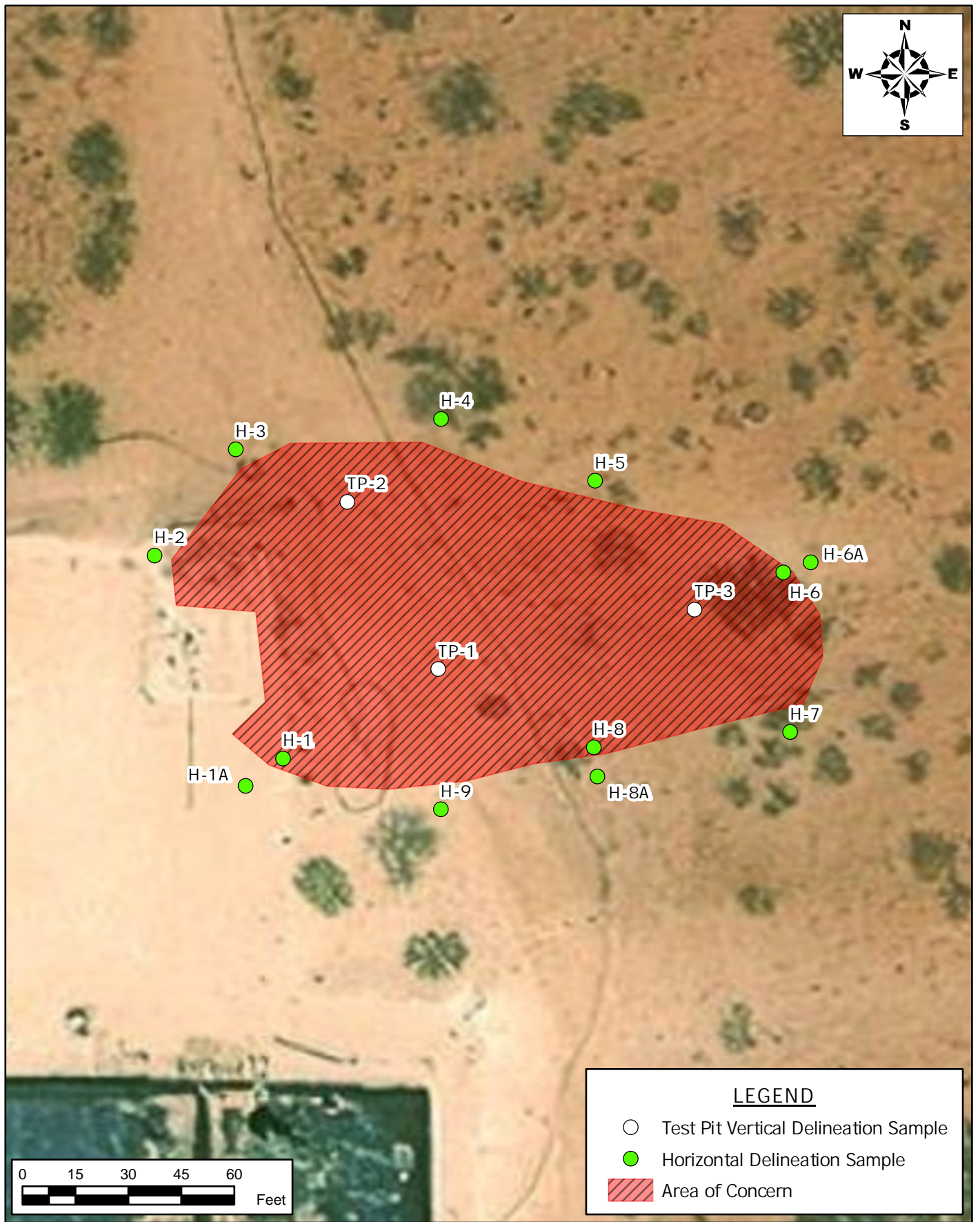
1 of 1

SCALE: As Shown Date: 2/28/2025 PROJECT #: 249376

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**DELINEATION SAMPLE MAP
INCIDENT CLOSURE REPORT
CAZA OPERATING, LLC**
SIOUX 36 STATE 1H-5H PRODUCTION FACILITY
LEA COUNTY, NEW MEXICO
32.0937937, -103.3284733

SCALE: As Shown

Date: 2/28/2025

PROJECT #: 249376



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Houston, Texas 77060
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NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

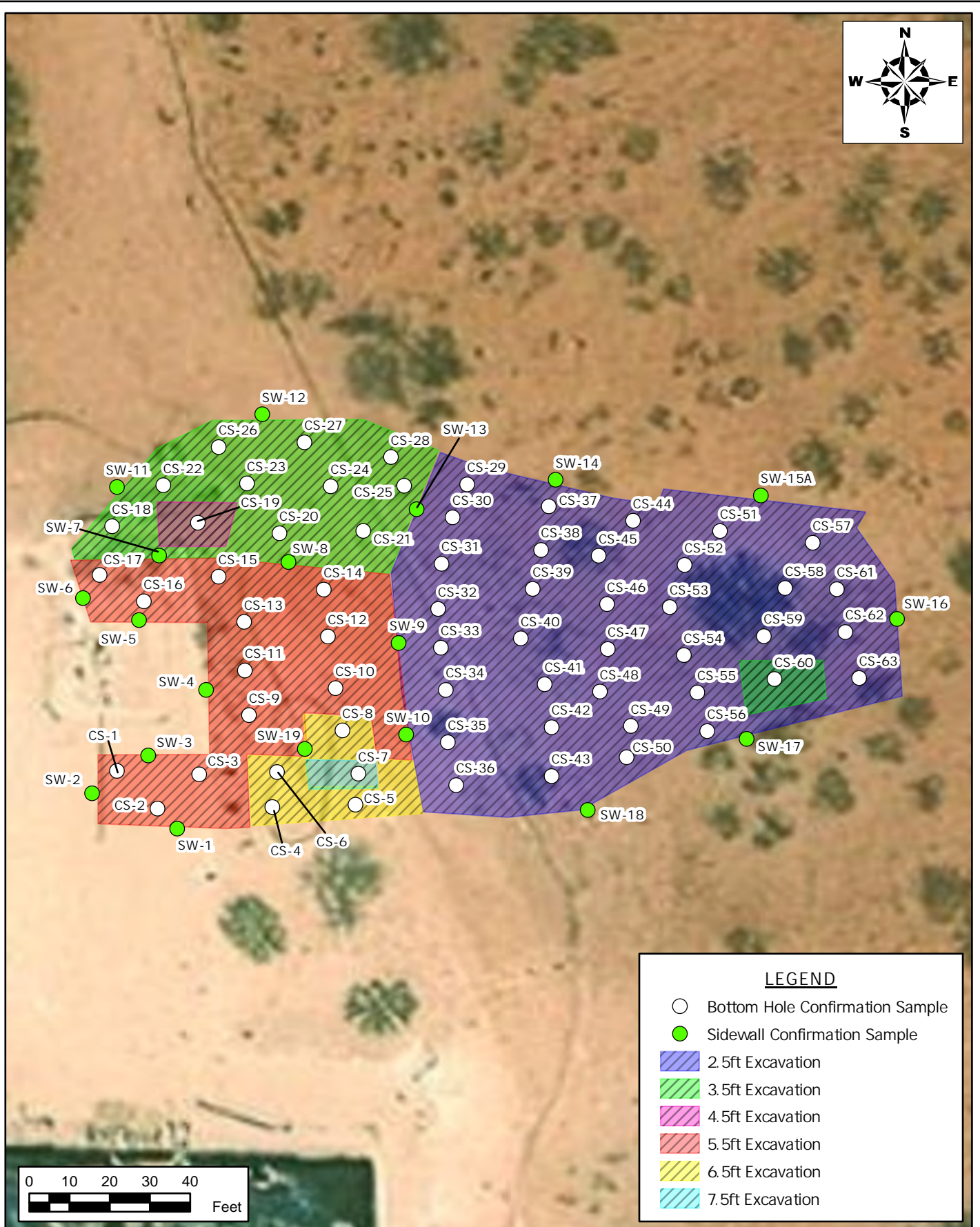
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FIGURE 3

SHEET NUMBER:

1 of 1

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**CONFIRMATION SAMPLE MAP
INCIDENT CLOSURE REPORT
CAZA OPERATING, LLC**
SIOUX 36 STATE 1H-5H PRODUCTION FACILITY
LEA COUNTY, NEW MEXICO
32.0937937,-103.3284733

SCALE: As Shown

Date: 2/28/2025

PROJECT #: 249376



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 4

SHEET NUMBER:

1 of 1

Site Characterization Information

National Flood Hazard Layer FIRMMette



103°20'2"W 32°5'53"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°19'24"W 32°5'23"N

Released to Imaging: 3/28/2025 2:33:43 PM

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		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
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

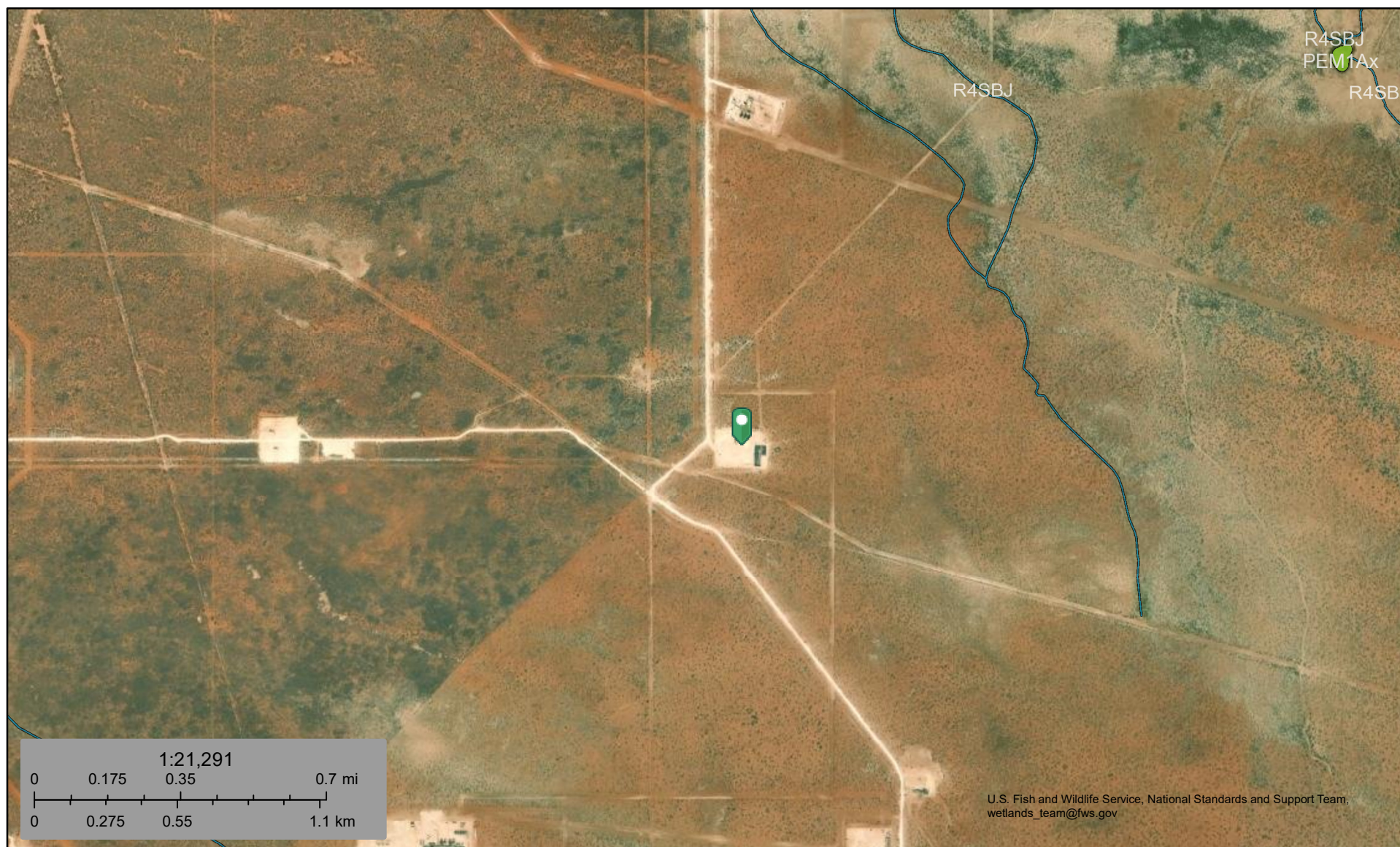
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/7/2025 at 3:51 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.



Sioux 36 State 1H-5H Production Facility



January 7, 2025

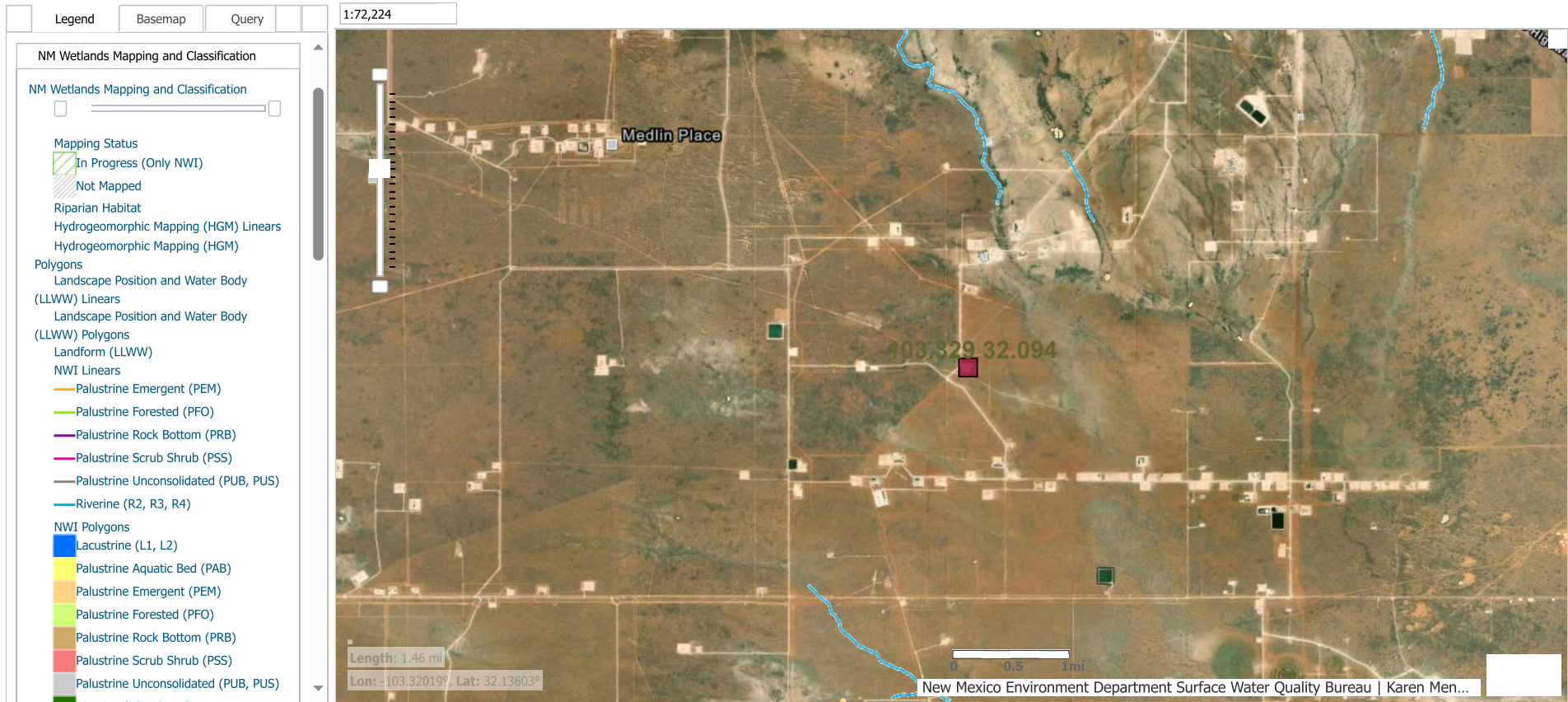
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine





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

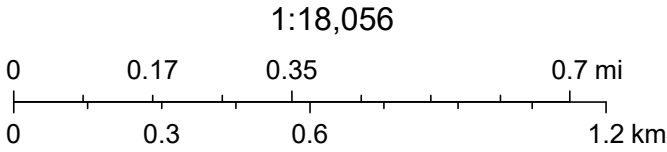


OCD Oil and Gas Map



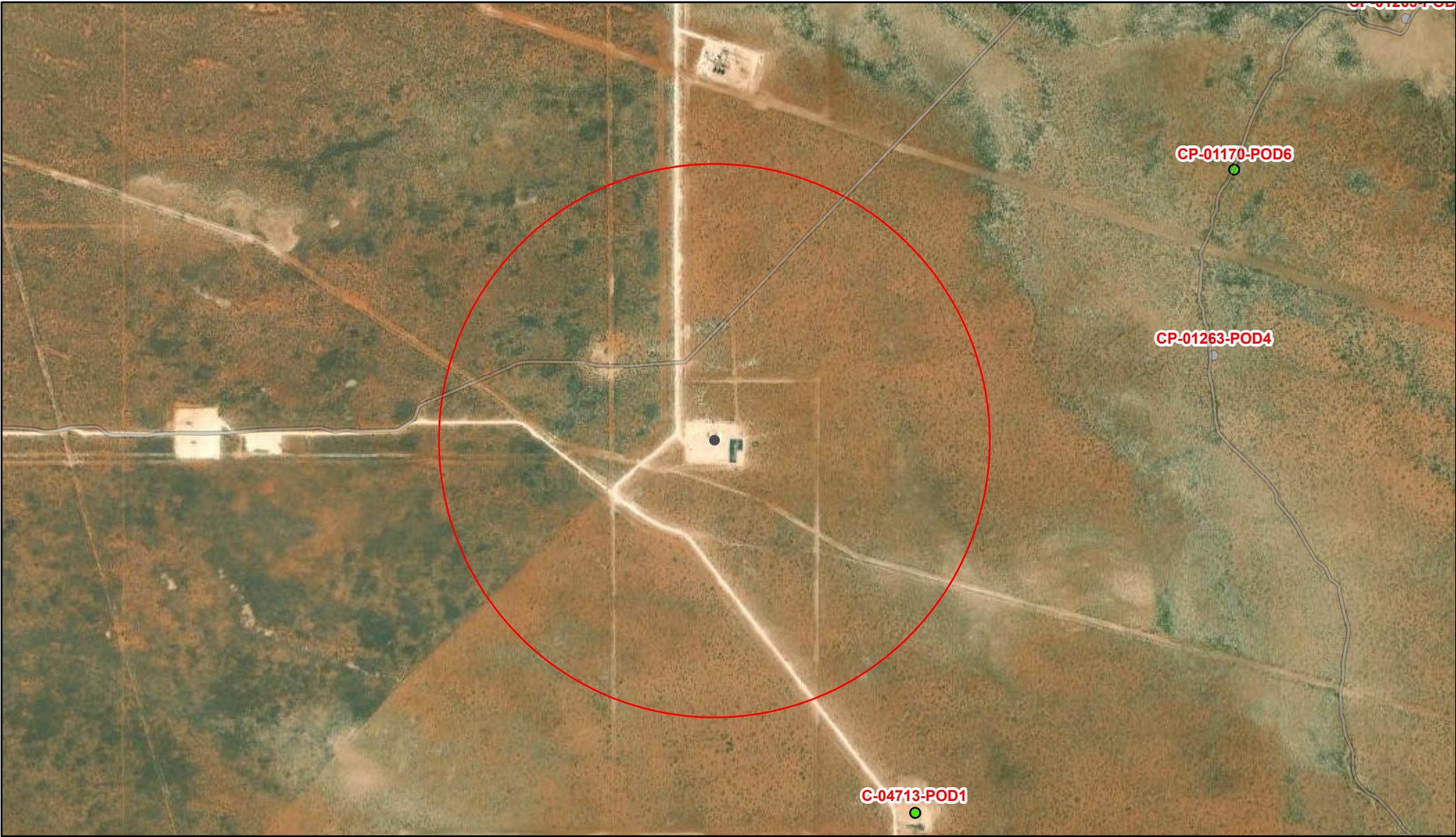
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-  Override 1
-  OSE Water PODs
- Karst Occurrence Potential
 -  Low
-  OSE Streams



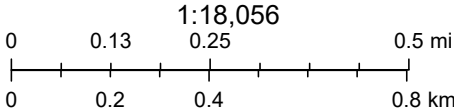
BLM, OCD, New Mexico Tech, USGS, Esri, HERE, Garmin, iPC, Maxar, NM OSE

OSE POD Location Map



1/7/2025, 9:14:46 AM
GIS WATERS PODs

- Pending
-



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Photographic Log

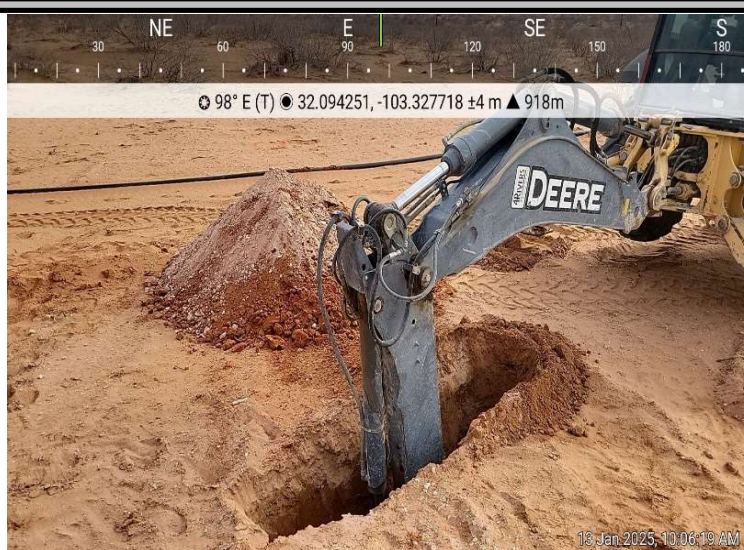
PHOTOGRAPHIC LOG
Caza Operating, LLC
Sioux 36 State 1H-5H Production Facility

Photograph No. 1

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

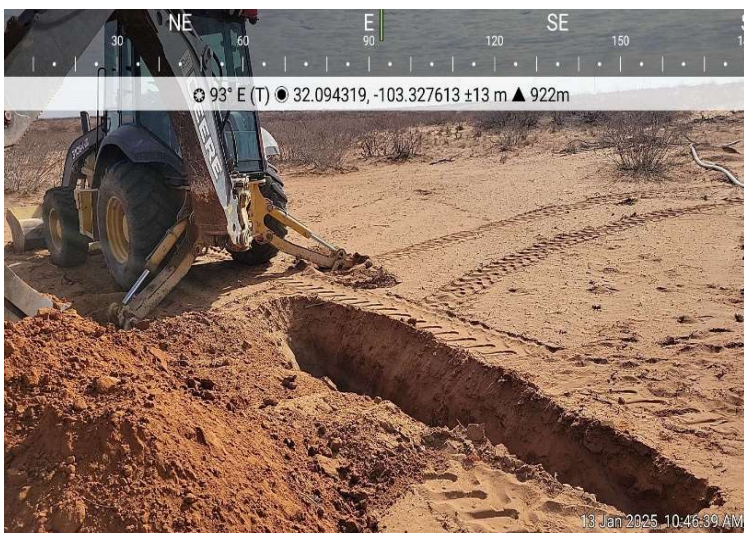
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Initial Assessment / Test Pits

**Photograph No. 2**

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

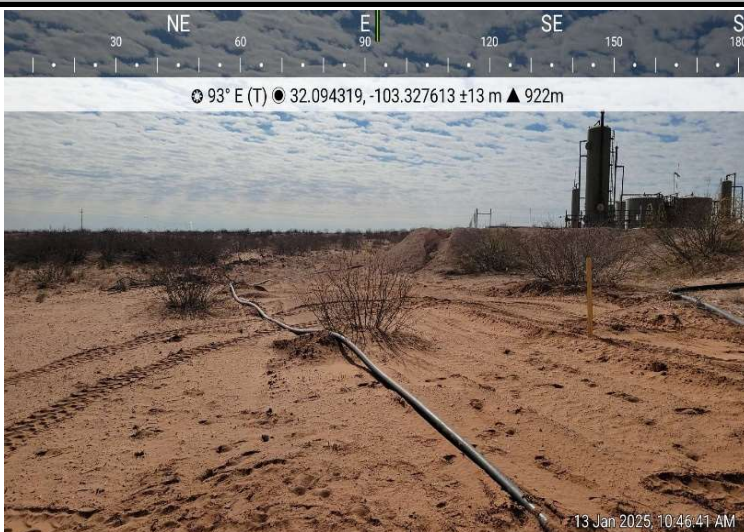
Description:
Initial Assessment / Test Pits

**Photograph No. 3**

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

Description:
Initial Assessment / Test Pits



PHOTOGRAPHIC LOG
Caza Operating, LLC
Sioux 36 State 1H-5H Production Facility

Photograph No. 4

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

Description:
Confirmation Sampling

**Photograph No. 5**

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

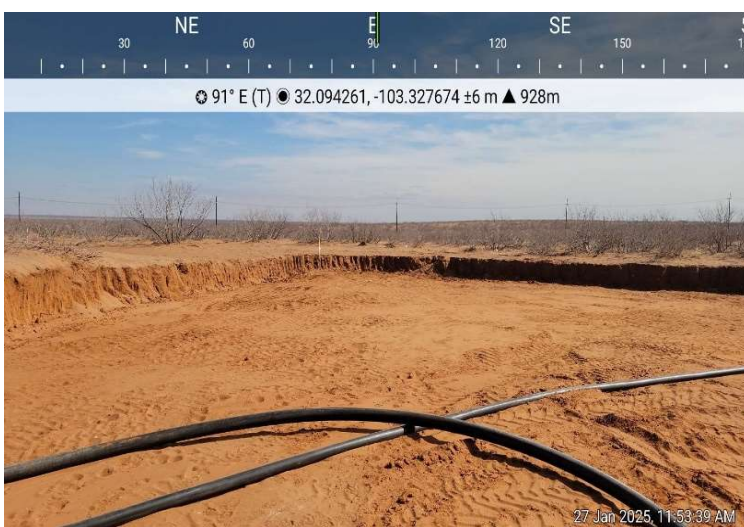
Description:
Confirmation Sampling

**Photograph No. 6**

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

Description:
Confirmation Sampling



PHOTOGRAPHIC LOG
Caza Operating, LLC
Sioux 36 State 1H-5H Production Facility

Photograph No. 7

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

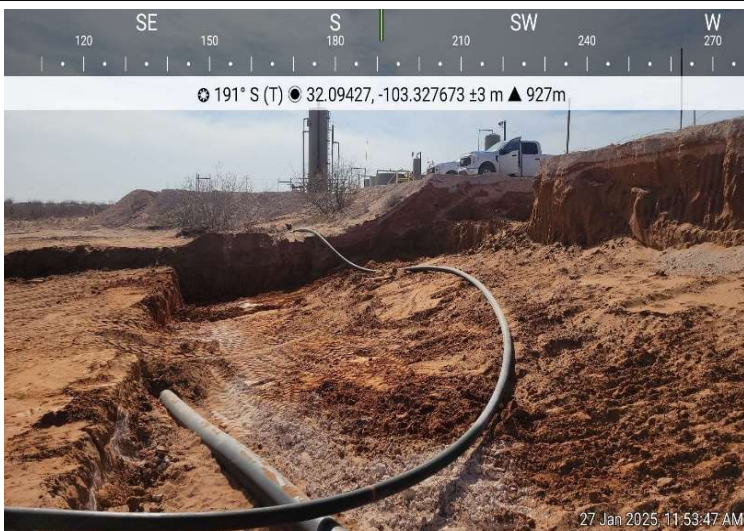
Description:
Confirmation Sampling

**Photograph No. 8**

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

Description:
Confirmation Sampling

**Photograph No. 9**

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

Description:
Confirmation Sampling



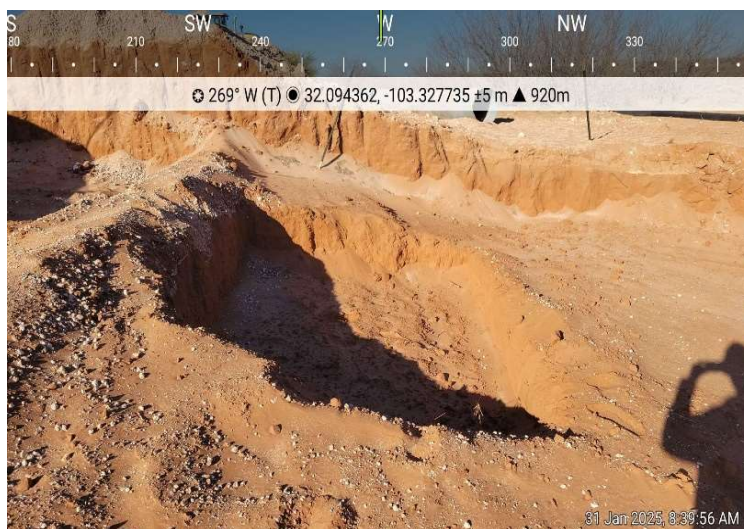
PHOTOGRAPHIC LOG
Caza Operating, LLC
Sioux 36 State 1H-5H Production Facility

Photograph No. 10

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

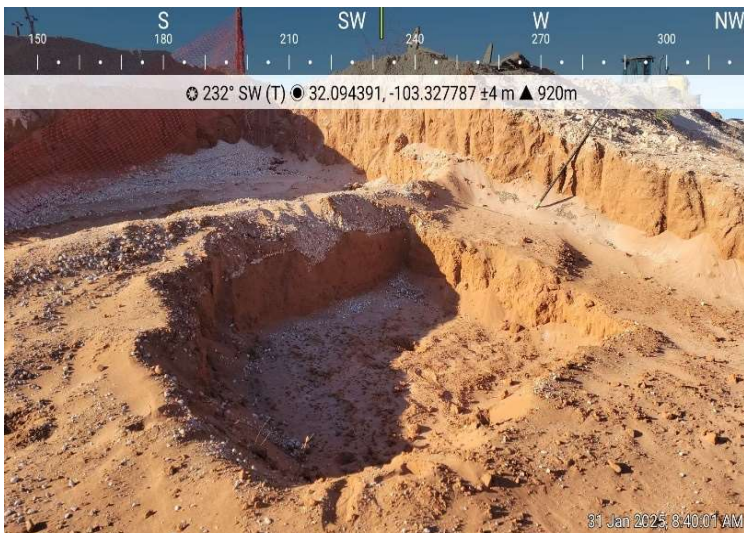
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**Photograph No. 11**

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

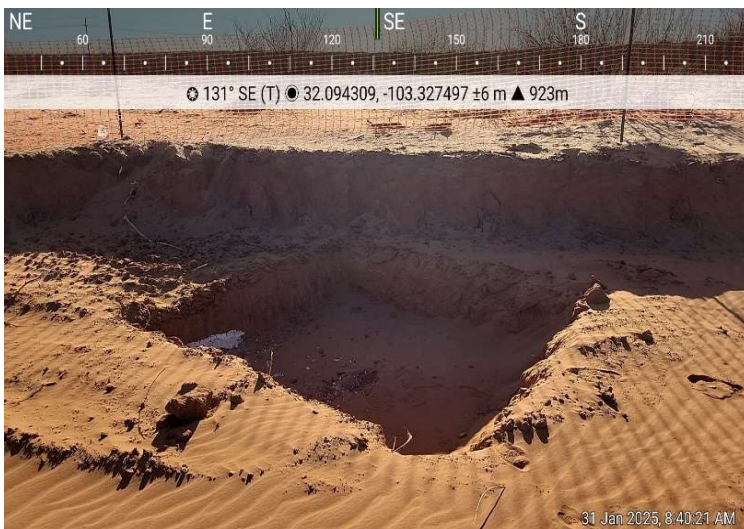
Description:
Confirmation Sampling

**Photograph No. 12**

Facility: Sioux 36 State 1H-5H Production Facility

County: Lea County, New Mexico

Description:
Confirmation Sampling



Laboratory Reports and Chain-of-Custody



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

January 16, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIOUX 36 STATE 1H-5H PROD. FRAC

Enclosed are the results of analyses for samples received by the laboratory on 01/13/25 13:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 1 1' (H250153-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97	
Toluene*	0.110	0.050	01/14/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	0.054	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	0.306	0.300	01/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	01/14/2025	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*	103	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	5440	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	1080	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 1 2' (H250153-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	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 % 71.5-134

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	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	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 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 1 3' (H250153-03)

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	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/14/2025	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	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 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 1 4' (H250153-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.01	101	2.00	3.97		
Toluene*	0.108	0.050	01/14/2025	ND	2.15	108	2.00	4.96		
Ethylbenzene*	0.228	0.050	01/14/2025	ND	2.22	111	2.00	5.47		
Total Xylenes*	0.969	0.150	01/14/2025	ND	6.67	111	6.00	5.09		
Total BTEX	1.30	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	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*	35.5	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	194	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	22.9	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 1 5' (H250153-05)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.515	0.100	01/15/2025	ND	2.01	101	2.00	3.97	
Toluene*	7.51	0.100	01/15/2025	ND	2.15	108	2.00	4.96	
Ethylbenzene*	4.52	0.100	01/15/2025	ND	2.22	111	2.00	5.47	
Total Xylenes*	16.2	0.300	01/15/2025	ND	6.67	111	6.00	5.09	
Total BTX	28.8	0.600	01/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	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*	694	10.0	01/14/2025	ND	195	97.6	200	3.81	
DRO >C10-C28*	2300	10.0	01/14/2025	ND	176	88.2	200	3.20	
EXT DRO >C28-C36	495	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/13/2025
 Reported: 01/16/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249375
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/13/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP - 1 6' (H250153-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2025	ND	2.01	101	2.00	3.97		
Toluene*	0.089	0.050	01/15/2025	ND	2.15	108	2.00	4.96		
Ethylbenzene*	<0.050	0.050	01/15/2025	ND	2.22	111	2.00	5.47		
Total Xylenes*	<0.150	0.150	01/15/2025	ND	6.67	111	6.00	5.09		
Total BTX	<0.300	0.300	01/15/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	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	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 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 1 7' (H250153-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	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	195	97.6	200	3.81	
DRO >C10-C28*	38.1	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 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 1 8' (H250153-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	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	195	97.6	200	3.81	
DRO >C10-C28*	37.6	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 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 2 1' (H250153-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	0.155	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	14000	16.0	01/14/2025	ND	448	112	400	3.64			
TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<50.0	50.0	01/14/2025	ND	193	96.6	200	1.26			
DRO >C10-C28*	15800	50.0	01/14/2025	ND	186	93.1	200	0.596	QM-07, QR-03		
EXT DRO >C28-C36	3560	50.0	01/14/2025	ND							

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 355 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 2 2' (H250153-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 2 3' (H250153-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	0.191	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	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	193	96.6	200	1.26	
DRO >C10-C28*	148	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	11.2	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 2 4' (H250153-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEx	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	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	193	96.6	200	1.26	
DRO >C10-C28*	25.6	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 2 5' (H250153-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 2 6' (H250153-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 2 7' (H250153-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 2 8' (H250153-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 3 1' (H250153-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13000	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	193	96.6	200	1.26	
DRO >C10-C28*	3300	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	796	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 3 2' (H250153-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	01/15/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	2.75	0.100	01/15/2025	ND	2.12	106	2.00	0.276	GC-NC1	
Ethylbenzene*	4.66	0.100	01/15/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	20.1	0.300	01/15/2025	ND	6.71	112	6.00	1.19		
Total BTEX	27.5	0.600	01/15/2025	ND						GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	01/14/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	599	10.0	01/14/2025	ND	193	96.6	200	1.26	
DRO >C10-C28*	3090	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	479	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 145 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 3 3' (H250153-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEx	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 3 4' (H250153-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 3 5' (H250153-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEx	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 3 6' (H250153-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 3 7' (H250153-23)

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	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	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	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: TP - 3 8' (H250153-24)

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	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

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	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	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 1 0.5' (H250153-25)

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	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	01/14/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 2 0.5' (H250153-26)

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	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/14/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	193	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 3 0.5' (H250153-27)

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	2.00	99.8	2.00	1.32		
Toluene*	<0.050	0.050	01/14/2025	ND	2.12	106	2.00	0.276		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.18	109	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	6.71	112	6.00	1.19		
Total BTEx	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-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	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	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 4 0.5' (H250153-28)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	1.88	93.9	2.00	3.88		
Toluene*	<0.050	0.050	01/14/2025	ND	2.03	102	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.00	99.9	2.00	4.64		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.86	97.6	6.00	4.81	QM-07	
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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	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	96.6	200	1.26	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	186	93.1	200	0.596	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 5 0.5' (H250153-29)

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	1.88	93.9	2.00	3.88		
Toluene*	<0.050	0.050	01/14/2025	ND	2.03	102	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.00	99.9	2.00	4.64		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.86	97.6	6.00	4.81		
Total BTEx	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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	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	167	83.3	200	1.80	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.5	200	0.929	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 6 0.5' (H250153-30)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	1.88	93.9	2.00	3.88		
Toluene*	<0.050	0.050	01/14/2025	ND	2.03	102	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.00	99.9	2.00	4.64		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.86	97.6	6.00	4.81		
Total BTX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

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	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	167	83.3	200	1.80	
DRO >C10-C28*	195	10.0	01/14/2025	ND	169	84.5	200	0.929	
EXT DRO >C28-C36	30.5	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 7 0.5' (H250153-31)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2025	ND	1.88	93.9	2.00	3.88		
Toluene*	<0.050	0.050	01/14/2025	ND	2.03	102	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.00	99.9	2.00	4.64		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.86	97.6	6.00	4.81		
Total BTX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

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	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	167	83.3	200	1.80	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.5	200	0.929	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 8 0.5' (H250153-32)

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	1.88	93.9	2.00	3.88		
Toluene*	<0.050	0.050	01/14/2025	ND	2.03	102	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.00	99.9	2.00	4.64		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.86	97.6	6.00	4.81		
Total BTEX	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

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	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	167	83.3	200	1.80	
DRO >C10-C28*	94.5	10.0	01/14/2025	ND	169	84.5	200	0.929	
EXT DRO >C28-C36	17.3	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/16/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 9 0.5' (H250153-33)

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	1.88	93.9	2.00	3.88		
Toluene*	<0.050	0.050	01/14/2025	ND	2.03	102	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/14/2025	ND	2.00	99.9	2.00	4.64		
Total Xylenes*	<0.150	0.150	01/14/2025	ND	5.86	97.6	6.00	4.81		
Total BTEx	<0.300	0.300	01/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/14/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/14/2025	ND	167	83.3	200	1.80	
DRO >C10-C28*	<10.0	10.0	01/14/2025	ND	169	84.5	200	0.929	
EXT DRO >C28-C36	<10.0	10.0	01/14/2025	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTGE		P.O. #:		ANALYSIS REQUEST																	
Project Manager: Kellian Smith		Company:																			
Address: 13212 N MacArthur Blvd		Attn:																			
City: Oklahoma City		State: OK		Zip: 73142																	
Phone #: 249375		Fax #:																			
Project #: 249375		Project Owner: CAFZA																			
Project Name: Sioux 36 State H-5H Prod. Fac		City:		State: Zip:																	
Project Location: LeFlore County, Oklahoma		Phone #:		Fax #:																	
Sample Name:		PRESERV.		SAMPLING																	
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chloride				
4550153	TP-1	6	1			X							11/13	1:00							
	TP-1																				
	TP-1																				
	TP-1																				
	TP-1																				
	TP-2																				
	TP-2																				
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	TP-2																				
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																					
Relinquished By:		Date: 11/13		Time: 1:11		Received By:		Date: 11/13		Time: 1:00		Remarks:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		All Results are emailed. Please provide Email address:					
Relinquished By:		Date: 11/13		Time: 1:11		Received By:		Date: 11/13		Time: 1:00		Remarks:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		All Results are emailed. Please provide Email address:					
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only) Sample Condition		Cool Intact		Observed Temp. °C		Corrected Temp. °C	
Sampler - UPS - Bus - Other:		18		12		<input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		AB		12		12		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush		<input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		12		12	
PORT 000 R 03/08/24																					

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



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTCG

Project Manager: Kellan Smith

Address: 13212 N MacArthur Blvd

City: Oklahoma City **State:** OK **Zip:** 73142

Phone #: **Fax #:**

Project #: 249375 **Project Owner:** CH2A

Project Name: Sioux 36 State High Prad. Fac

Project Location: LeFlore County

Sampler Name: LeFlore

FOR LAB USE ONLY

BILL TO

P.O. #:

Company:

Attn:

Address:

City: **State:** **Zip:**

Phone #: **Fax #:**

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Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chloride
48501-53	TP-2												11/13	1:00			
11	TP-2																
12	TP-2																
13	TP-2																
14	TP-2																
15	TP-2																
16	TP-2																
17	TP-2																
18	TP-2																
19	TP-2																
20	TP-2																

Relinquished By: [Signature] **Date:** 11/13 **Received By:** [Signature] **Date:** 11/13

Time: 1:30 **Time:** 1:35

Delivered By: (Circle One) **Observed Temp. °C:** 18 **Corrected Temp. °C:** 18

Sampler - UPS - Bus - Other: **Cool Intact:** ☒ Yes ☐ No **Sample Condition:** ☒ Intact ☐ Cool ☐ No ☐ Yes

Turnaround Time: **Standard:** ☒ **Rush:** ☐ **Bacteria (only):** ☐ **Cool Intact:** ☐ **Yes:** ☐ **No:** ☐ **Observed Temp. °C:** **Corrected Temp. °C:**

REMARKS:

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

All Results are emailed. Please provide Email address:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BTGE		BILL TO		ANALYSIS REQUEST	
Project Manager: Kellan Smith		P.O. #:			
Address: 13212 N MacArthur Blvd		Company:			
City: Oklahoma City		Attn:			
State: OK		Address:			
Zip: 73142		City:			
Phone #:		State:			
Fax #:		Zip:			
Project #: 240375		Project Owner: CAZA			
Project Name: Sioux 36 State HSH Prod. Fac		City:			
Project Location: LeFlore County		State:			
Zip: 74401		Phone #:			
Fax #:		Zip:			
Sampler Name: LeFlore County		Fax #:			
FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D.		DATE		TIME	
Sample I.D.		DATE		TIME	
H25053		11/13		1:00	
a1		TPH		BTEx	
a2		TPH		Chloride	
a3		TPH			
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

January 17, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIOUX 36 STATE 1H-5H PROD. FRAC

Enclosed are the results of analyses for samples received by the laboratory on 01/13/25 13:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/17/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 1A 0.5' (H250154-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	01/17/2025	ND	2.18	109	2.00	1.20	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.31	115	2.00	1.70	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.96	116	6.00	2.19	
Total BTX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	192	96.0	200	4.66	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	175	87.5	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/17/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 6A 0.5' (H250154-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2025	ND	2.20	110	2.00	1.93		
Toluene*	<0.050	0.050	01/17/2025	ND	2.18	109	2.00	1.20		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.31	115	2.00	1.70		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.96	116	6.00	2.19		
Total BTX	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	192	96.0	200	4.66	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	175	87.5	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/13/2025	Sampling Date:	01/13/2025
Reported:	01/17/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249375	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: H - 8A 0.5' (H250154-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2025	ND	2.20	110	2.00	1.93		
Toluene*	<0.050	0.050	01/17/2025	ND	2.18	109	2.00	1.20		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.31	115	2.00	1.70		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.96	116	6.00	2.19		
Total BTEx	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	192	96.0	200	4.66	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	175	87.5	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BTGE		P.O. #:		ANALYSIS REQUEST	
Project Manager: Kellan Smith		Company:			
Address: 13212 N MacArthur Blvd		Attn:			
City: Oklahoma City		Address:			
State: OK		City:			
Zip: 73142		State:			
Phone #:		Zip:			
Fax #:		Phone #:			
Project #: 240375		Project Owner: CAZA			
Project Name: Sioux 36 State H-5H Prod. Fac		City:			
Project Location: LeFlore County		State:			
Sample Name: LeFlore County		Zip:			
FOR LAB USE ONLY		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	BT EX	TPH	Chloride	Hold	Removed	With	Same	Day	TAT	Go	4/17/20
H-050154	H-1A		0.5				11/13	1:00											
	H-2A																		
	H-3A																		
	H-4A																		
	H-5A																		
	H-6A																		
	H-7A																		
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	H-9A																		

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 	Date: 11/13	Received By: ADAMS	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By: 	Date: 11/13	Received By: ADAMS	All Results are emailed. Please provide Email address:
Delivered By: (Circle One) UPS	Observed Temp. °C: 1.8	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush
Corrected Temp. °C: 1.32	Checked By: AD	Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact	Thermometer ID #140
		Correction Factor -0.6°C	Corrected Temp. °C



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

January 28, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIOUX 36 STATE 1H-5H PROD. FRAC

Enclosed are the results of analyses for samples received by the laboratory on 01/27/25 13:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 1 5.5' (H250472-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78	
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00	QM-07
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68	QM-07
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-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	01/28/2025	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	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 2 5.5' (H250472-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78	
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68	
Total BTEx	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/28/2025	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	01/27/2025	ND	208	104	200	1.37	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	205	102	200	0.967	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 3 5.5' (H250472-03)

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	01/27/2025	ND	2.07	104	2.00	6.78	
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68	
Total BTEx	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/28/2025	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	01/27/2025	ND	208	104	200	1.37	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	205	102	200	0.967	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 4 6.5' (H250472-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78		
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/28/2025	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	01/27/2025	ND	208	104	200	1.37	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	205	102	200	0.967	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 5 6.5' (H250472-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78		
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	01/28/2025	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	01/27/2025	ND	208	104	200	1.37	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	205	102	200	0.967	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 6 6.5' (H250472-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78	
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68	
Total BTEx	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/28/2025	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	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 7 6.5' (H250472-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78	
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68	
Total BTEx	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	01/28/2025	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	01/27/2025	ND	208	104	200	1.37	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	205	102	200	0.967	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 8 5.5' (H250472-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78	
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68	
Total BTX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/28/2025	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	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 9 5.5' (H250472-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78	
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68	
Total BTEx	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/28/2025	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	01/27/2025	ND	208	104	200	1.37	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	205	102	200	0.967	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 10 5.5' (H250472-10)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78	
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: KV				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/28/2025	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	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	36.4	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 11 5.5' (H250472-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78		
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

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	01/28/2025	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	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	40.6	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 12 5.5' (H250472-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78	
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68	
Total BTEx	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/28/2025	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	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	18.7	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 13 5.5' (H250472-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78		
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

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	01/28/2025	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	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	22.1	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 14 5.5' (H250472-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78		
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/28/2025	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	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	21.7	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 15 5.5' (H250472-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78		
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-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	01/28/2025	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	01/27/2025	ND	208	104	200	1.37	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	205	102	200	0.967	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 16 5.5' (H250472-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78		
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

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	01/28/2025	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	01/27/2025	ND	208	104	200	1.37	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	205	102	200	0.967	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 17 5.5' (H250472-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78		
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

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	01/28/2025	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	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 18 3.5' (H250472-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.07	104	2.00	6.78		
Toluene*	<0.050	0.050	01/27/2025	ND	2.34	117	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.51	126	2.00	4.00		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.67	128	6.00	3.68		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

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	01/28/2025	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	01/27/2025	ND	208	104	200	1.37	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	205	102	200	0.967	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 19 3.5' (H250472-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	134	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	14.5	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 20 3.5' (H250472-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	204	102	200	3.52	
DRO >C10-C28*	36.7	10.0	01/28/2025	ND	200	99.9	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 21 3.5' (H250472-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	28.4	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 22 3.5' (H250472-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 23 3.5' (H250472-23)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 24 3.5' (H250472-24)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 25 3.5' (H250472-25)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 26 3.5' (H250472-26)

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	01/27/2025	ND	1.98	99.0	2.00	2.14	
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94	
Total BTEx	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 27 3.5' (H250472-27)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 28 3.5' (H250472-28)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/28/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 29 2.5' (H250472-29)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/28/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 30 2.5' (H250472-30)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	37.9	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 31 2.5' (H250472-31)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	72.4	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	10.3	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 32 2.5' (H250472-32)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/28/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	25.1	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 33 2.5' (H250472-33)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 34 2.5' (H250472-34)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	28.6	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 35 2.5' (H250472-35)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	23.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 36 2.5' (H250472-36)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/28/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 37 2.5' (H250472-37)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	52.4	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 38 2.5' (H250472-38)

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	01/27/2025	ND	1.98	99.0	2.00	2.14		
Toluene*	<0.050	0.050	01/27/2025	ND	2.07	103	2.00	2.53		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.05	103	2.00	2.97		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.13	102	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	21.7	10.0	01/27/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 39 2.5' (H250472-39)

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	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

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	01/28/2025	ND	416	104	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	01/28/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	41.6	10.0	01/28/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 40 2.5' (H250472-40)

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	01/27/2025	ND	1.98	99.2	2.00	0.795		
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/28/2025	ND	416	104	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	01/28/2025	ND	195	97.5	200	2.04	
DRO >C10-C28*	66.6	10.0	01/28/2025	ND	196	97.9	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 41 2.5' (H250472-41)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	14.6	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 42 2.5' (H250472-42)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 43 2.5' (H250472-43)

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	01/27/2025	ND	1.98	99.2	2.00	0.795		
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 44 2.5' (H250472-44)

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	01/27/2025	ND	1.98	99.2	2.00	0.795		
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	26.4	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 45 2.5' (H250472-45)

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	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	10.8	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 46 2.5' (H250472-46)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 47 2.5' (H250472-47)

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	01/27/2025	ND	1.98	99.2	2.00	0.795		
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500Cl-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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 48 2.5' (H250472-48)

BTX 8021B			mg/kg							
			Analyzed By: JH							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.2	2.00	0.795		
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772		
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387		
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND						

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 49 2.5' (H250472-49)

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	01/27/2025	ND	1.98	99.2	2.00	0.795		
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 50 2.5' (H250472-50)

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	01/27/2025	ND	1.98	99.2	2.00	0.795		
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 51 2.5' (H250472-51)

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	01/27/2025	ND	1.98	99.2	2.00	0.795		
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 52 2.5' (H250472-52)

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	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	44.4	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 53 2.5' (H250472-53)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 54 2.5' (H250472-54)

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	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500Cl-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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 55 2.5' (H250472-55)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 56 2.5' (H250472-56)

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	01/27/2025	ND	1.98	99.2	2.00	0.795		
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 57 2.5' (H250472-57)

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	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

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	01/28/2025	ND	416	104	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	01/27/2025	ND	200	100	200	0.772	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 58 2.5' (H250472-58)

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	01/27/2025	ND	1.98	99.2	2.00	0.795	
Toluene*	<0.050	0.050	01/27/2025	ND	2.08	104	2.00	0.722	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.99	99.6	2.00	0.686	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.83	97.2	6.00	0.734	
Total BTEX	<0.300	0.300	01/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

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	01/28/2025	ND	416	104	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	01/28/2025	ND	200	100	200	0.772	
DRO >C10-C28*	14.8	10.0	01/28/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 59 2.5' (H250472-59)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	200	100	200	0.772	
DRO >C10-C28*	78.2	10.0	01/28/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 60 2.5' (H250472-60)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	200	100	200	0.772	
DRO >C10-C28*	165	10.0	01/28/2025	ND	198	99.0	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 61 2.5' (H250472-61)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	12.1	10.0	01/28/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 62 2.5' (H250472-62)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/28/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	85.6	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 63 2.5' (H250472-63)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 1 0-5.5' (H250472-64)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 2 0-5.5' (H250472-65)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 3 0-5.5' (H250472-66)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 4 0-5.5' (H250472-67)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 5 0-5.5' (H250472-68)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 6 0-5.5' (H250472-69)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 7 3.5-5.5' (H250472-70)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 8 3.5-5.5' (H250472-71)

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	01/27/2025	ND	2.19	110	2.00	1.32	
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94	
Total BTEX	<0.300	0.300	01/27/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 9 2.5-5.5' (H250472-72)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 10 2.5-5.5' (H250472-73)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 11 0-3.5' (H250472-74)

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	01/27/2025	ND	2.19	110	2.00	1.32	
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94	
Total BTEX	<0.300	0.300	01/27/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 12 0-3.5' (H250472-75)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 13 2.5'-3.5' (H250472-76)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEX	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 14 0-2.5' (H250472-77)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTX	<0.300	0.300	01/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 15 0-2.5' (H250472-78)

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	01/27/2025	ND	2.19	110	2.00	1.32		
Toluene*	<0.050	0.050	01/27/2025	ND	2.27	114	2.00	1.83		
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.31	115	2.00	2.15		
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.99	116	6.00	1.94		
Total BTEx	<0.300	0.300	01/27/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/28/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	360	10.0	01/28/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	70.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/27/2025	Sampling Date:	01/27/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 16 0-2.5' (H250472-79)

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	01/28/2025	ND	1.88	94.0	2.00	5.66		
Toluene*	<0.050	0.050	01/28/2025	ND	1.97	98.3	2.00	5.86		
Ethylbenzene*	<0.050	0.050	01/28/2025	ND	1.88	94.0	2.00	6.13		
Total Xylenes*	<0.150	0.150	01/28/2025	ND	5.51	91.8	6.00	6.20		
Total BTEx	<0.300	0.300	01/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/28/2025	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	01/28/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 17 0-2.5' (H250472-80)

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	01/28/2025	ND	1.88	94.0	2.00	5.66		
Toluene*	<0.050	0.050	01/28/2025	ND	1.97	98.3	2.00	5.86		
Ethylbenzene*	<0.050	0.050	01/28/2025	ND	1.88	94.0	2.00	6.13		
Total Xylenes*	<0.150	0.150	01/28/2025	ND	5.51	91.8	6.00	6.20		
Total BTEX	<0.300	0.300	01/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

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	01/28/2025	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	01/28/2025	ND	194	97.2	200	0.374	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	202	101	200	0.565	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 01/27/2025
 Reported: 01/28/2025
 Project Name: SIOUX 36 STATE 1H-5H PROD. FRAC
 Project Number: 249376
 Project Location: CAZA - LEA CO, NM

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 18 0-2.5' (H250472-81)

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	01/28/2025	ND	1.88	94.0	2.00	5.66		
Toluene*	<0.050	0.050	01/28/2025	ND	1.97	98.3	2.00	5.86		
Ethylbenzene*	<0.050	0.050	01/28/2025	ND	1.88	94.0	2.00	6.13		
Total Xylenes*	<0.150	0.150	01/28/2025	ND	5.51	91.8	6.00	6.20		
Total BTEX	<0.300	0.300	01/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/28/2025	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	01/28/2025	ND	189	94.6	200	20.5	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	197	98.4	200	20.6	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 11850473

Page 1 of 9

Page 84 of 92

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	
State of Project:	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV	
Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Sioux 36 State 1H-5H PF		Turn Around		ANALYSIS REQUEST																					
Project Number:		249376		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code																					
Project Location:		Lea Co, NM		Due Date:		24 hr																					
Sampler's Name:		CTTK		TAT starts the day received by the lab, if received by 4:30pm																							
PO #																											
SAMPLE RECEIPT				Temp Blank:		Yes <input checked="" type="checkbox"/> No		Wet Ice:		Yes <input checked="" type="checkbox"/> No																	
Received Intact:				Yes <input checked="" type="checkbox"/> No		Thermometer ID:		140		-0.00																	
Cooler Custody Seals:				Yes <input checked="" type="checkbox"/> No		N/A		Correction Factor:		4.00																	
Sample Custody Seals:				Yes <input checked="" type="checkbox"/> No		N/A		Temperature Reading:		4.00																	
Total Containers:				81		Corrected Temperature:																					
Sample Identification		Depth (ft bgs)		Date		Time		Soil		Water		Grab/Comp		# of Cont		Parameters											
CS-1		5.5'		1/27/2025				X				Comp		1		BTEX 8021B											
CS-2		5.5'		1/27/2025				X				Comp		1		TPH 8015M (GRO + DRO + MRO)											
CS-3		5.5'		1/27/2025				X				Comp		1		Chloride 4500											
CS-4		5.5'		1/27/2025				X				Comp		1													
CS-5		5.5'		1/27/2025				X				Comp		1													
CS-6		5.5'		1/27/2025				X				Comp		1													
CS-7		5.5'		1/27/2025				X				Comp		1													
CS-8		5.5'		1/27/2025				X				Comp		1													
CS-9		5.5'		1/27/2025				X				Comp		1													
CS-10		5.5'		1/27/2025				X				Comp		1													

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1:05:13 PM			



Chain of Custody

Work Order No: 11850478

Page 2 of 9

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Sioux 36 State 1H-5H PF	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number:	249376																	None: NO	DI Water: H ₂ O		
Project Location:	Lea Co, NM	Due Date:	24 hr															Cool: Cool	MeOH: Me		
Sampler's Name:	CT, TK	TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO ₃ : HN		
PO #																		H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H ₃ PO ₄ : HP			
Received Inact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:																Zn Acetate+NaOH: Zn			
Total Containers:	81	Corrected Temperature:																NaOH+Ascorbic Acid: SAPC			
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-11	5.5'	1/27/2025		X		Comp	1	X	X	X											
CS-12	5.5'	1/27/2025		X		Comp	1	X	X	X											
CS-13	5.5'	1/27/2025		X		Comp	1	X	X	X											
CS-14	5.5'	1/27/2025		X		Comp	1	X	X	X											
CS-15	5.5'	1/27/2025		X		Comp	1	X	X	X											
CS-16	5.5'	1/27/2025		X		Comp	1	X	X	X											
CS-17	5.5'	1/27/2025		X		Comp	1	X	X	X											
CS-18	3.5'	1/27/2025		X		Comp	1	X	X	X											
CS-19	3.5'	1/27/2025		X		Comp	1	X	X	X											
CS-20	3.5'	1/27/2025		X		Comp	1	X	X	X											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	1	1/27/25-1342	2	2	
3	3		4	4	
5	5		6	6	



Chain of Custody

Work Order No: 1856172

Page 3 of 9

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Sioux 36 State 1H-5H PF	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code													
Project Number:	249376	Due Date:	24 hr														
Project Location:	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm															
Sampler's Name:	AT TK																
PO #																	
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:															
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:															
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	4.0°C														
Total Containers:	81	Corrected Temperature:	4.0°C														
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters									
CS-21	3.5'	1/27/2025		X		Comp	1	X	X	X	X	X	BTEX 8021B				
CS-22	3.5'	1/27/2025		X		Comp	1	X	X	X	X	X	TPH 8015M (GRO + DRO + MRO)				
CS-23	3.5'	1/27/2025		X		Comp	1	X	X	X	X	X	Chloride 4500				
CS-24	3.5'	1/27/2025		X		Comp	1	X	X	X	X	X					
CS-25	3.5'	1/27/2025		X		Comp	1	X	X	X	X	X					
CS-26	3.5'	1/27/2025		X		Comp	1	X	X	X	X	X					
CS-27	3.5'	1/27/2025		X		Comp	1	X	X	X	X	X					
CS-28	3.5'	1/27/2025		X		Comp	1	X	X	X	X	X					
CS-29	2.5'	1/27/2025		X		Comp	1	X	X	X	X	X					
CS-30	2.5'	1/27/2025		X		Comp	1	X	X	X	X	X					

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1/27/25 1342			



Chain of Custody

Work Order No: 14350479

Page 4 of 9

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntgglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Sioux 36 State 1H-5H PF	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	249376	Due Date:	24 hr		
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	CT, TK				
PO #:					
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	-0.00		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	4.00		
Total Containers:	81	Corrected Temperature:	4.00		

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	TPH																Sample Comments													
CS-31	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										
CS-32	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										
CS-33	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										
CS-34	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										
CS-35	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										
CS-36	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										
CS-37	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										
CS-38	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										
CS-39	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										
CS-40	2.5'	1/27/2025		X		Comp	1	X	X	X	X																										

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1/27/25 1340			



Chain of Custody

Work Order No: _____

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Project Manager	Kellan Smith	Bill to: (if different)
Company Name	NTG Environmental	Company Name
Address	13212 N MacArthur Blvd	Address
City, State ZIP	Oklahoma City, OK 73142	City, State ZIP
Phone	(580) 682-1889	Email: ksmith@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Sioux 36 State 1H-5H PF		Turn Around		ANALYSIS REQUEST													Preservative Codes											
Project Number:		249376		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush															None: NO DI Water: H ₂ O											
Project Location		Lea Co, NM		Due Date:		24 hr															Cool: Cool MeOH: Me									
Sampler's Name:		PTT		TAT starts the day received by the lab, if received by 4:30pm															HCL: HC HNO ₃ : HN											
PO #:																			H ₂ SO ₄ : H ₂ NaOH: Na											
SAMPLE RECEIPT		Temp Blank:		Yes No		Thermometer ID:		Yes No															H ₃ PO ₄ : HP							
Received Intact:		Yes No				Cooler Custody Seals:		Yes No		N/A															NaHSO ₄ : NABIS					
Sample Custody Seals:		Yes No		N/A		Temperature Reading:		Yes No		4.0°C															Na ₂ S ₂ O ₃ : NaSO ₃					
Total Containers:		81		Corrected Temperature:		4.0°C															Zn Acetate+NaOH: Zn									
Sample Identification		Depth (ft bgs)		Date		Time		Soil		Water		Grab/Comp		# of Cont															NaOH+Ascorbic Acid: SAPC	
CS-41		2.5'		1/27/2025				X				Comp		1															Sample Comments	
CS-42		2.5'		1/27/2025				X				Comp		1																
CS-43		2.5'		1/27/2025				X				Comp		1																
CS-44		2.5'		1/27/2025				X				Comp		1																
CS-45		2.5'		1/27/2025				X				Comp		1																
CS-46		2.5'		1/27/2025				X				Comp		1																
CS-47		2.5'		1/27/2025				X				Comp		1																
CS-48		2.5'		1/27/2025				X				Comp		1																
CS-49		2.5'		1/27/2025				X				Comp		1																
CS-50		2.5'		1/27/2025				X				Comp		1																

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1/27/25 1342			

Revised Date 05/31/2020 Rev. 2020



Chain of Custody

Work Order No: 1550472

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Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	
State of Project:	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV	
Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Sioux 36 State 1H-5H PF	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number:	249376	Due Date:	24 hr															None: NO	DI Water: H ₂ O		
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm																	Cool: Cool	MeOH: Me	
Sampler's Name:	CTTK																		HCL: HC	HNO ₃ : HN	
PO #		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140													H ₃ PO ₄ : HP			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:		Temperature Reading:	4.0													NaHSO ₄ : NABIS			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	4.0													Na ₂ S ₂ O ₃ : NaSO ₃					
Total Containers:	81																	Zn Acetate+NaOH: Zn			
																		NaOH+Ascorbic Acid: SAPC			
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-51	2.5'	1/27/2025		X		Comp	1	X	X	X											
CS-52	2.5'	1/27/2025		X		Comp	1	X	X	X											
CS-53	2.5'	1/27/2025		X		Comp	1	X	X	X											
CS-54	2.5'	1/27/2025		X		Comp	1	X	X	X											
CS-55	2.5'	1/27/2025		X		Comp	1	X	X	X											
CS-56	2.5'	1/27/2025		X		Comp	1	X	X	X											
CS-57	2.5'	1/27/2025		X		Comp	1	X	X	X											
CS-58	2.5'	1/27/2025		X		Comp	1	X	X	X											
CS-59	2.5'	1/27/2025		X		Comp	1	X	X	X											
CS-60	2.5'	1/27/2025		X		Comp	1	X	X	X											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1/27/25 1342			
		4			
		6			



Chain of Custody

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Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Sioux 36 State 1H-5H PF	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes				
Project Number:	249376	Due Date:	24 hr												None: NO	DI Water: H ₂ O			
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool	MeOH: Me		
Sampler's Name:	CTT															HCL: HC	HNO ₃ : HN		
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												H ₃ PO ₄ : HP			
Received Inact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140													NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.02													Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	4.02													Zn Acetate+NaOH: Zn			
Total Containers:	81	Corrected Temperature:	4.02													NaOH+Ascorbic Acid: SAPC			
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	BTX 8021B										Sample Comments	
								TPH 8015M (GRO + DRO + MRO)											
								Chloride 4500											
CS-61	2.5'	1/27/2025		X		Comp	1	X	X	X									
CS-62	2.5'	1/27/2025		X		Comp	1	X	X	X									
CS-63	2.5'	1/27/2025		X		Comp	1	X	X	X									
SW-1	0-5.5'	1/27/2025		X		Comp	1	X	X	X									
SW-2	0-5.5'	1/27/2025		X		Comp	1	X	X	X									
SW-3	0-5.5'	1/27/2025		X		Comp	1	X	X	X									
SW-4	0-5.5'	1/27/2025		X		Comp	1	X	X	X									
SW-5	0-5.5'	1/27/2025		X		Comp	1	X	X	X									
SW-6	0-5.5'	1/27/2025		X		Comp	1	X	X	X									
SW-7	3.5-5.5'	1/27/2025		X		Comp	1	X	X	X									

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1/27/25 1340 ²			



Chain of Custody

Work Order No: 4250472

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Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Sioux 36 State 1H-5H PF	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes			
Project Number:	249376	Due Date:	24 hr													None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC			
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm																	
Sampler's Name:	ATK																		
PO #:																			
SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice:	Yes	No												
Received Intact:	Yes	No	Thermometer ID:	140															
Cooler Custody Seals:	Yes	No	Correction Factor:	4.0															
Sample Custody Seals:	Yes	No	Temperature Reading:	4.0															
Total Containers:	81	Corrected Temperature:	4.0																
Parameters	BTEX 8021B																		
	TPH 8015M (GRO + DRO + MRO)																		
	Chloride 4500																		
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
SW-8	3.5-5.5'	1/27/2025		X		Comp	1	X	X	X									
SW-9	2.5-5.5'	1/27/2025		X		Comp	1	X	X	X									
SW-10	2.5-5.5'	1/27/2025		X		Comp	1	X	X	X									
SW-11	0-3.5'	1/27/2025		X		Comp	1	X	X	X									
SW-12	0-3.5'	1/27/2025		X		Comp	1	X	X	X									
SW-13	2.5-3.5'	1/27/2025		X		Comp	1	X	X	X									
SW-14	0-2.5'	1/27/2025		X		Comp	1	X	X	X									
SW-15	0-2.5'	1/27/2025		X		Comp	1	X	X	X									
SW-16	0-2.5'	1/27/2025		X		Comp	1	X	X	X									
SW-17	0-2.5'	1/27/2025		X		Comp	1	X	X	X									

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1/27/25 1343			



Chain of Custody

Work Order No: 1357472

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Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com



Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> FRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Sioux 36 State 1H-5H PF	Turn Around		PRESERVATIVE CODES
Project Number:	249376	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		
Project Location	Lea Co. NM	Due Date:	24 hr	
Sampler's Name:	A.T.K.	TAT starts the day received by the lab, if received by 4:30pm		
PO #:				
SAMPLE RECEIPT	Temp Blank:	Yes: No No: Yes		
Received Intact:	Yes No	Thermometer ID:	140	
Cooler Custody Seals:	Yes No	Correction Factor:	-0.10°	
Sample Custody Seals:	Yes No	N/A		
Total Containers:	81	Temperature Reading:	4.10°	
		Corrected Temperature:	4.0°	
				Parameters
BTX 8021B				
H 8015M (GRO + DRO + MRO)				
Chloride 4500				
HOLD				
None: NO		DI Water: H ₂ O		
Cool: Cool		MeOH: Me		
HCL: HC		HNO ₃ : HN		
H ₂ SO ₄ : H ₂		NaOH: Na		
H ₃ PO ₄ : HP				
NaHSO ₄ : NABIS				
Na ₂ S ₂ O ₃ : NaSO ₃				
Zn Acetate+NaOH: Zn				
NaOH+Ascorbic Acid: SAPC				

[illegible]

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$95.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-27-25 1342			

Revised Date 05/01/2020 Rev. 201



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

February 03, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIOUX 36 STATE 1H-5H PROD. FRAC

Enclosed are the results of analyses for samples received by the laboratory on 01/31/25 13:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/31/2025	Sampling Date:	01/31/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 7 (H250587-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	2.16	108	2.00	7.59	
Toluene*	<0.050	0.050	01/31/2025	ND	2.19	110	2.00	7.80	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.24	112	2.00	6.72	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.69	112	6.00	6.10	
Total BTEX	<0.300	0.300	01/31/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/31/2025	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	01/31/2025	ND	190	95.2	200	1.30	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	167	83.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/31/2025	Sampling Date:	01/31/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 8 (H250587-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2025	ND	2.16	108	2.00	7.59		
Toluene*	<0.050	0.050	01/31/2025	ND	2.19	110	2.00	7.80		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.24	112	2.00	6.72		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.69	112	6.00	6.10		
Total BTEx	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/31/2025	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	01/31/2025	ND	190	95.2	200	1.30	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	167	83.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/31/2025	Sampling Date:	01/31/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 19 (H250587-03)

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	01/31/2025	ND	2.16	108	2.00	7.59		
Toluene*	<0.050	0.050	01/31/2025	ND	2.19	110	2.00	7.80		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.24	112	2.00	6.72		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.69	112	6.00	6.10		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/31/2025	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	01/31/2025	ND	190	95.2	200	1.30	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	167	83.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/31/2025	Sampling Date:	01/31/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: CS - 60 (H250587-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2025	ND	2.16	108	2.00	7.59		
Toluene*	<0.050	0.050	01/31/2025	ND	2.19	110	2.00	7.80		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.24	112	2.00	6.72		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.69	112	6.00	6.10		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/31/2025	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	01/31/2025	ND	190	95.2	200	1.30	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	167	83.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/31/2025	Sampling Date:	01/31/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 15 A (H250587-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2025	ND	2.16	108	2.00	7.59		
Toluene*	<0.050	0.050	01/31/2025	ND	2.19	110	2.00	7.80		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.24	112	2.00	6.72		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.69	112	6.00	6.10		
Total BTEx	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/31/2025	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	01/31/2025	ND	190	95.2	200	1.30	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	167	83.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/31/2025	Sampling Date:	01/31/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	SIOUX 36 STATE 1H-5H PROD. FRAC	Sampling Condition:	Cool & Intact
Project Number:	249376	Sample Received By:	Alyssa Parras
Project Location:	CAZA - LEA CO, NM		

Sample ID: SW - 19 (H250587-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2025	ND	2.16	108	2.00	7.59		
Toluene*	<0.050	0.050	01/31/2025	ND	2.19	110	2.00	7.80		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.24	112	2.00	6.72		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.69	112	6.00	6.10		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/31/2025	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	01/31/2025	ND	190	95.2	200	1.30	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	167	83.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 4250587

Page 1 of 1

Project Manager:	Kellian Smith	Bill to: (if different)	
Company Name:	NTGE	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(832) 374-0004	Email:	

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

[illegible]

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 441642

QUESTIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 441642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434432746
Incident Name	NAPP2434432746 SIOUX 36 STATE 1H-5H PRODUCTION FACILITY @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2428852127] Sioux 36 State 1H-5H Production Facility

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Sioux 36 State 1H-5H Production Facility
Date Release Discovered	12/07/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 8 BBL Recovered: 0 BBL Lost: 8 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Instrument air compressor lost power. Sent liquid to the flare.

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 2

Action 441642

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 441642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Kelly Arrendondo Title: Production Reporting Manager Email: karredondo@ntglobal.com Date: 12/10/2024
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 441642

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID:
	249099
	Action Number:
	441642
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	14000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	19440
GRO+DRO (EPA SW-846 Method 8015M)	15880
BTEX (EPA SW-846 Method 8021B or 8260B)	28.8
Benzene (EPA SW-846 Method 8021B or 8260B)	0.5
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/20/2025
On what date will (or did) the final sampling or liner inspection occur	01/31/2025
On what date will (or was) the remediation complete(d)	02/07/2025
What is the estimated surface area (in square feet) that will be reclaimed	12676
What is the estimated volume (in cubic yards) that will be reclaimed	1675
What is the estimated surface area (in square feet) that will be remediated	12676
What is the estimated volume (in cubic yards) that will be remediated	1675
<i>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.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 441642

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 441642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Kelly Arrendondo Title: Production Reporting Manager Email: karredondo@ntglobal.com Date: 03/12/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 441642

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 441642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 441642

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 441642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	426087
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/31/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	12676
What was the total volume (cubic yards) remediated	1675
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	12676
What was the total volume (in cubic yards) reclaimed	1675
Summarize any additional remediation activities not included by answers (above)	n/a
<p><i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i></p>	
<p>I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.</p>	
I hereby agree and sign off to the above statement	Name: Kelly Arrendondo Title: Production Reporting Manager Email: karredondo@ntglobal.com Date: 03/12/2025

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QUESTIONS, Page 7

Action 441642

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 441642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 441642

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 441642
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	3/28/2025