



December 22, 2025

**New Mexico Oil Conservation Division**

1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Closure Request  
Big Eddy Unit DI 5 Battery  
Incident Number NAPP2518958747  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities at the Big Eddy Unit DI 5 Battery (Site). The purpose of the site assessment, excavation, and soil sampling activities were to assess for the presence or absence of impacts to soil following a flare fire and release of crude oil. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing site assessment and excavation activities that have occurred and requesting no further remediation for Incident Number NAPP2518958747.

### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit G, Section 27, Township 20 South, Range 31 East, in Eddy County, New Mexico (32.544555°, -103.853224°) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On July 8, 2025, a pump failure resulted in a flare fire and the release of approximately 2 barrels (bbls) of crude oil. No fluids were recovered. XTO immediately reported the release to the NMOCD via Notification of Release (NOR) on July 8, 2025, and an Initial C-141 Application (C-141) on July 17, 2025. The release was assigned Incident Number nAPP2518958747.

Based on the location of the release, XTO submitted a Form 3160-5 (Sundry Form) to the BLM to request access to the pasture soils on September 3, 2025. XTO received an approved Sundry Form on September 8, 2025 granting access to complete remediation activities. Land access records are included in Appendix A.

### **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below. Potential site receptors are identified on Figure 1.

XTO Energy, Inc  
Closure Request  
Big Eddy Unit DI 5 Battery



Depth to groundwater at the Site is estimated to be between 50 and 100 feet below ground surface (bgs) based on nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 323307103503901, located approximately 0.70 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 77.88 feet bgs and a total depth of 156 feet bgs. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 7,743 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## **SITE ASSESSMENT AND EXCAVATION ACTIVITIES**

On July 8, 2025, the same day the release occurred, Ensolum personnel visited the Site to evaluate the release extent based on information provided by XTO and visual observations. No samples were collected during this Site visit. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation is included in Appendix C.

Between September 16 and October 6, 2025, Ensolum personnel returned to the Site to assess the release extent and oversee excavation activities. Eleven delineation soil samples, SS01 through SS09 were collected from within and around the release extent. Vertical delineation soil samples were collected within the release extent at SS03 at a depth of 1 foot bgs, and SS09 at a depth of 0.5 feet bgs. Discrete soil samples were collected from the delineation boreholes at depths ranging from ground surface to 1 foot bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Soil screening results and visual observations were logged on lithologic logs that are included in Appendix D. Delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

Visual observations during excavation activities indicated that a portion of the release extent surface area presented no surficial staining. To confirm the presence or absence of impacted soil in this area, 5-point composite soil samples representing no more than 200 square feet were collected from the release extent. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Ensolum personnel collected confirmation soil samples CS01 through CS05 at depths of 0.25 feet bgs from this portion of the release extent. The soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. Photographic documentation is included in Appendix C.

XTO Energy, Inc  
Closure Request  
Big Eddy Unit DI 5 Battery



Impacted soil was excavated from the release area as indicated by visible staining and field screening activities, and surficial soil that was scorched by the fire was scraped and removed from the Site. Excavation activities were performed using heavy equipment. To direct excavation activities, soil samples were field screened for VOCs and chloride as described above. Following removal of impacted soil, Ensolum collected 5-point composite soil samples representing no more than 200 square feet from the floor and sidewalls of the excavation and scraped area at depths ranging from ground surface to 0.5 feet bgs. Confirmation soil samples CS06 through CS15 were collected at a depth of 0.25 feet bgs, from the excavation and surface scraped areas. The excavation extent and soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. Photographic documentation is included in Appendix C.

All delineation and confirmation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M; and chloride following Standards Method SM4500Cl-B.

The final excavation extent measured approximately 3,415 square feet. A total of approximately 60 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill in Hobbs, New Mexico. The excavation was backfilled on October 14, 2025, with material purchased locally and recontoured to match pre-existing site conditions. The excavated pasture area will be reseeded with a BLM approved seed mix in the next recommended planting season.

Based on laboratory analytical results from confirmation soil sampling completed following the September 2025 excavation activities, XTO submitted a Status Update to the NMOCD via email on October 3, 2025, requesting a 90 day extension to allow time for additional excavation and final confirmation soil sampling activities to be completed. As of the date of this *Closure Request*, XTO has not received a response from the NMOCD. The Status Update correspondence is included in Appendix E.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples collected indicated all COC concentrations were below the Closure Criteria except for SS09 collected at ground surface. This includes soil samples SS01, SS02, and SS04 through SS08, collected just outside the release extent area and thus provides lateral definition of the release. Delineation soil sample SS09 at surface indicated TPH and chloride levels were exceeding Closure Criteria, but this soil sample was removed during excavation activities. Furthermore, SS09A collected at 0.5 feet bgs, located directly underneath SS09, was in compliance with Closure Criteria and thus provides full vertical definition of the release.

Laboratory analytical results for SW01 and CS06 indicated elevated TPH concentrations that exceeded the Closure Criteria, but those samples were removed during the October 6, 2025 excavation activities. Sidewall confirmation samples SW01 and SW02 collected at depths ranging from ground surface to 0.5 feet bgs, and floor confirmation samples FS08 and FS09 collected at 0.5 feet bgs were collected on October 6, 2025, following the removal of impacts in this area. All other final confirmation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria. Laboratory

XTO Energy, Inc  
Closure Request  
Big Eddy Unit DI 5 Battery



analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix F.

**CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address the July 8, 2025 flare fire and crude oil release. Laboratory analytical results for all confirmation soil samples collected from the release extent and final excavation extent indicated that all COC concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated potential impacts at this Site. Depth to groundwater has been estimated to be between 50 and 100 feet bgs and no sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2518958747.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,  
**Ensolum, LLC**

Joshua Boxley  
Field Technician

Tacoma Morrissey  
Associate Principal

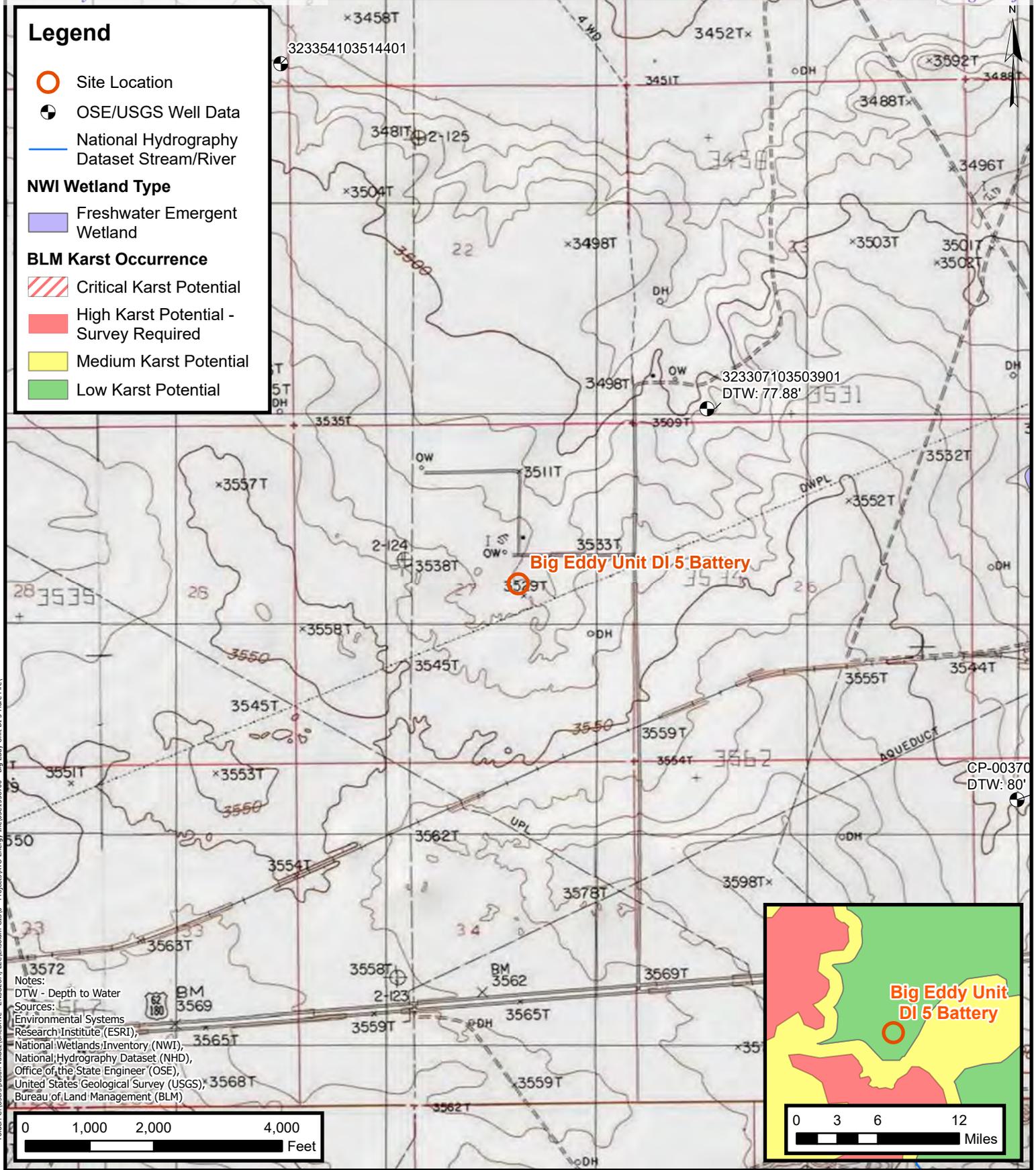
cc: Robert Woodall, XTO  
Richard Kotzur, XTO  
Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Confirmation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Land Access Records
- Appendix B Referenced Well Records
- Appendix C Photographic Log
- Appendix D Lithologic Soil Sampling Logs
- Appendix E NMOCD Correspondence
- Appendix F Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G Spill Volume Calculation



FIGURES



Folder: C:\Users\jvaitez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\031558700 - Big Eddy Unit DI 5 Flare Field



**Site Receptor Map**  
 XTO Energy Inc  
 Big Eddy Unit DI 5 Battery  
 Incident Number: NAPP2518958747  
 Unit G, Section 27, T 20S, R 31E  
 Eddy County, New Mexico

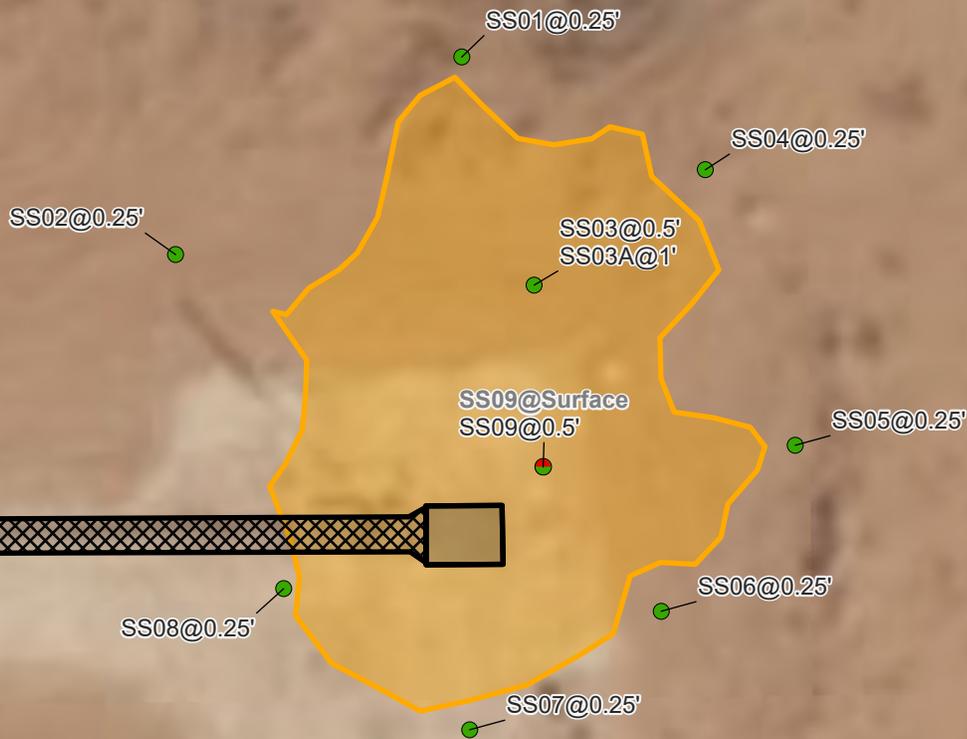
**FIGURE**  
**1**

### Legend

- Delineation Soil Sample Compliant with Closure Criteria
- Delineation Soil Sample with Initial Concentrations Exceeding Closure Criteria
-  Production Equipment (Flare stack on concrete pad)
-  Production Equipment (Above ground flare gas lines)
-  Release Extent



Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR\_GIS\BIFile Path Structure3 - Carlsbad\XTO Energy - Inc\0301558700 - Big Eddy Unit DI 5 Flare Fire\1 - Project\Big Eddy Unit DI 5 Flare Fire.aprx



**Note:**  
 Sample ID @ Depth Below Ground Surface  
 Grey text indicates soil sample removed during excavation activities.  
 Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.



Sources  
Azure Maps



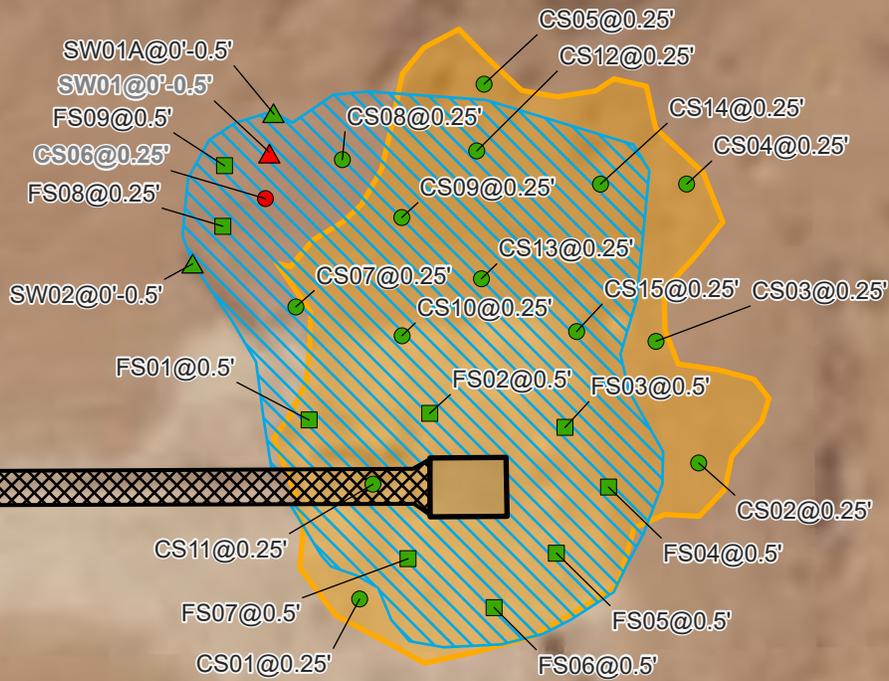
## Delineation Soil Sample Locations

XTO Energy, Inc  
 Big Eddy Unit DI 5 Battery  
 Incident Number: NAPP2518958747  
 Unit G, Section 27, Township 20 South, Range 31 East  
 Eddy County, New Mexico

FIGURE  
**2**

### Legend

- Confirmation Soil Sample Compliant with Closure Criteria
- Confirmation Soil Sample Exceeding Closure Criteria
- Confirmation Floor Sample Compliant with Closure Criteria
- ▲ Confirmation Sidewall Soil Sample Compliant with Closure Criteria
- ▲ Confirmation Sidewall Soil Sample Exceeding Closure Criteria
- Excavation Extent
- Production Equipment (Flare stack on concrete pad)
- Production Equipment (Above ground flare gas lines)
- Release Extent



**Note:**  
 Sample ID @ Depth Below Ground Surface  
 Grey text indicates soil sample removed during excavation activities.  
 Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.



Sources  
Azure Maps



## Confirmation Soil Sample Locations

XTO Energy, Inc  
 Big Eddy Unit DI 5 Battery  
 Incident Number: NAPP2518958747  
 Unit G, Section 27, Township 20 South, Range 31 East  
 Eddy County, New Mexico

FIGURE  
**3**



TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Big Eddy Unit DI 5 Battery  
XTO Energy, Inc  
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Delineation Soil Samples</b>										
SS01	09/16/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	09/16/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	09/16/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03A	09/18/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	09/16/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS05	09/16/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS06	09/16/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07	09/16/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS08	09/16/2025	0.25	<0.050	<0.300	<10.0	13.2	<10.0	13.2	13.2	64.0
SS09	09/17/2025	Surface	<0.050	<0.300	<50.0	15,700	3,690	15,700	19,390	640
SS09A	09/18/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
<b>Confirmation Soil Samples</b>										
CS01	09/17/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS02	09/17/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS03	09/17/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS04	09/17/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS05	09/17/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS06	09/18/2025	0.25	<0.050	<0.300	<10.0	99.3	33.4	99.3	133	96.0
CS07	09/18/2025	0.25	<0.050	<0.300	<10.0	62.7	20.7	62.7	83.4	64.0
CS08	09/18/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS09	09/18/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS10	09/18/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS11	09/18/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS12	09/18/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS13	09/18/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS14	09/18/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS15	09/18/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Big Eddy Unit DI 5 Battery  
XTO Energy, Inc  
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Confirmation Soil Samples</b>										
FS01	09/18/2025	0.5	<0.050	<0.300	<10.0	64.3	19.7	64.3	84.0	80.0
FS02	09/18/2025	0.5	<0.050	<0.300	<10.0	74.4	24.0	74.4	98.4	96.0
FS03	09/18/2025	0.5	<0.050	<0.300	<10.0	60.6	20.5	60.6	81.1	96.0
FS04	09/18/2025	0.5	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	48.0
FS05	09/18/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS06	09/18/2025	0.5	<0.050	<0.300	<10.0	30.8	<10.0	30.8	30.8	80.0
FS07	09/18/2025	0.5	<0.050	<0.300	<10.0	46.1	15.8	46.1	61.9	96.0
FS08	10/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS09	10/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW01	09/18/2025	0-0.5	<0.050	<0.300	<10.0	114	41.3	114	155	144
SW01	10/06/2025	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW02	10/06/2025	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Land Access Reords

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

<b>Well Name:</b> BIG EDDY UNIT DI5	<b>Well Location:</b> T20S / R31E / SEC 27 / SWNE / 32.5460848 / -103.8544305	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 4H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMLC065914	<b>Unit or CA Name:</b> BIG EDDY - CHERRY CANYON	<b>Unit or CA Number:</b> NMNM68294N
<b>US Well Number:</b> 3001540397	<b>Operator:</b> XTO PERMIAN OPERATING LLC	

**Notice of Intent**

**Sundry ID:** 2871105

**Type of Submission:** Notice of Intent

**Type of Action:** Other

**Date Sundry Submitted:** 09/03/2025

**Time Sundry Submitted:** 11:39

**Date proposed operation will begin:** 10/02/2025

**Procedure Description:** XTO Permian Operating LLC., respectfully requests access to an off-pad pasture area located 650 feet southeast of the BIG EDDY UNIT DI 5 #004H well. Access is needed in order to complete remediation activities related to a flare fire that occurred on July 8, 2025 (Incident Number NAPP2518958747). The BIG EDDY UNIT DI 5 #004H well is the closest XTO well located on BLM land. The fire occurred at GPS 32.544555, -103.853245. Excavation of impacted soil is needed utilizing heavy equipment (backhoe, trackhoe, and hydrovacuum truck). After successful completion of remediation efforts, the disturbed area will be backfilled with top soil purchased locally and re-countoured to match pre-existing site conditions and re-seeded with the recommended BLM seed mixture. Excavation activities will begin within 90 days following the approval of this request. Please see attached Site Map.

**Surface Disturbance**

**Is any additional surface disturbance proposed?:** Yes

**Proposed Disturbance(acres):** 1.59

**Interim Reclamation (acres):** 0.0

**Long Term Disturbance (acres):** 0.0

**Surface Disturbance:**

**NOI Attachments**

**Procedure Description**

BEU\_DI\_5\_004H\_\_BLM\_Access\_Request\_\_Site\_Map\_20250903113757.pdf

Well Name: BIG EDDY UNIT D15

Well Location: T20S / R31E / SEC 27 / SWNE / 32.5460848 / -103.8544305

County or Parish/State: EDDY / NM

Well Number: 4H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC065914

Unit or CA Name: BIG EDDY - CHERRY CANYON

Unit or CA Number: NMNM68294N

US Well Number: 3001540397

Operator: XTO PERMIAN OPERATING LLC

**Operator**

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHERRY MORROW

Signed on: SEP 02, 2025 01:55 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND

State: TX

Phone: (432) 218-3671

Email address: SHERRY.MORROW@EXXONMOBIL.COM

**Field**

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

**BLM Point of Contact**

BLM POC Name: CRISHA A MORGAN

BLM POC Title: Environmental Protection Specialist

BLM POC Phone: 5752345987

BLM POC Email Address: CAMORGAN@BLM.GOV

Disposition: Approved

Disposition Date: 09/08/2025

Signature: CRISHA A. MORGAN

Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	
	Title
Signature	Date

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by		
	Title	Date
	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Location of Well

0. SHL: SWNE / 1980 FNL / 1848 FEL / TWSP: 20S / RANGE: 31E / SECTION: 27 / LAT: 32.5460848 / LONG: -103.8544305 ( TVD: 0 feet, MD: 0 feet )

PPP: SENE / 1978 FNL / 972 FEL / TWSP: 20S / RANGE: 31E / SECTION: 27 / LAT: 0.0 / LONG: 0.0 ( TVD: 0 feet, MD: 0 feet )

BHL: SENE / 2049 FNL / 350 FEL / TWSP: 20S / RANGE: 31E / SECTION: 25 / LAT: 0.0 / LONG: 0.0 ( TVD: 0 feet, MD: 0 feet )



## APPENDIX B

### Referenced Well Records

---



USGS Home  
 Contact USGS  
 Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States

Click to hide News Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

**i** Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
 site\_no list = 

- 323307103503901

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

**USGS 323307103503901 20S.31E.23.33312**

Eddy County, New Mexico  
 Latitude 32°33'07", Longitude 103°50'39" NAD27  
 Land-surface elevation 3,510 feet above NAVD88  
 The depth of the well is 156 feet below land surface.  
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1983-01-20			D 62610		3427.56	NGVD29	1	Z		
1983-01-20			D 62611		3429.16	NAVD88	1	Z		
1983-01-20			D 72019	80.84			1	Z		
1986-01-22			D 62610		3427.91	NGVD29	1	Z		
1986-01-22			D 62611		3429.51	NAVD88	1	Z		
1986-01-22			D 72019	80.49			1	Z		
1994-03-02			D 62610		3430.52	NGVD29	1	S		
1994-03-02			D 62611		3432.12	NAVD88	1	S		
1994-03-02			D 72019	77.88			1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2025-07-08 13:35:52 EDT

0.4 0.31 nadww02



APPENDIX C  
Photographic Log

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**Photographic Log**  
XTO Energy, Inc  
Big Eddy Unit DI 5 Battery  
NAPP2518958747



Photograph: 1                                      Date: 7/8/2025  
Description: Flare fire release extent, surficial staining  
View: Southwest

Photograph: 2                                      Date: 7/8/2025  
Description: Flare fire release extent, surficial staining  
View: Southeast

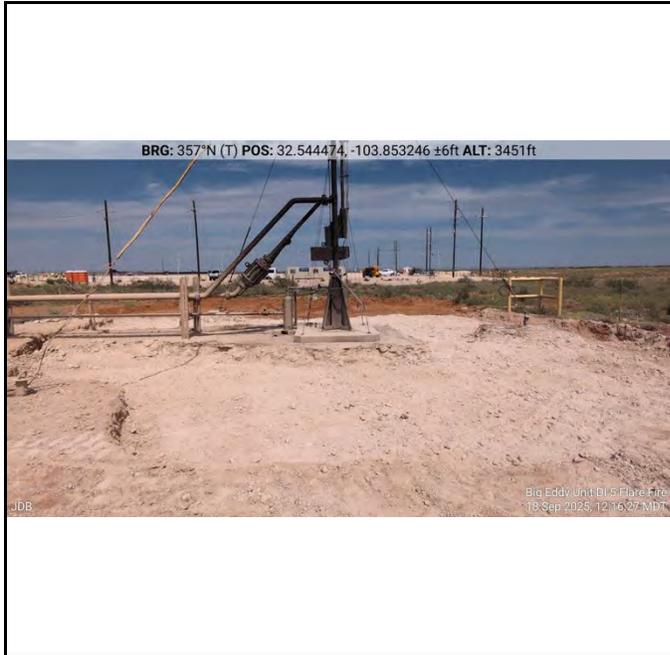
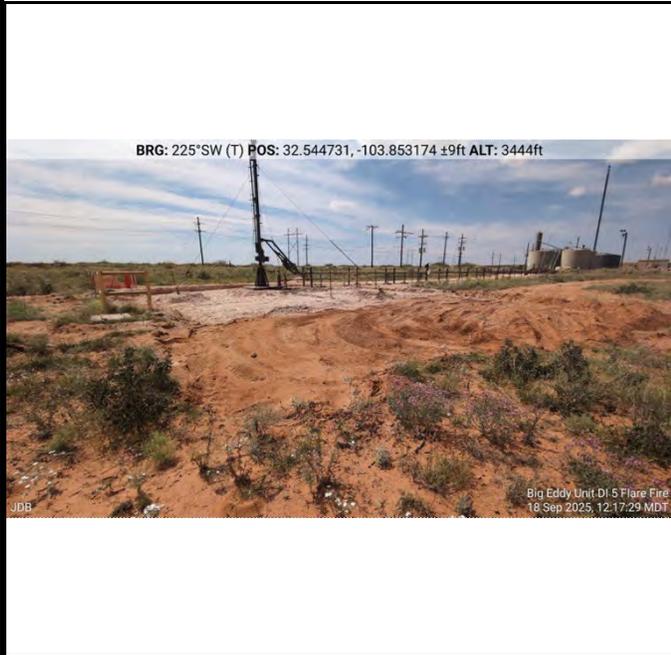


Photograph: 3                                      Date: 9/17/2025  
Description: Pasture inside extent in vicinity of CS03  
View: West

Photograph: 4                                      Date: 9/17/2025  
Description: Pasture inside release extent  
View: South

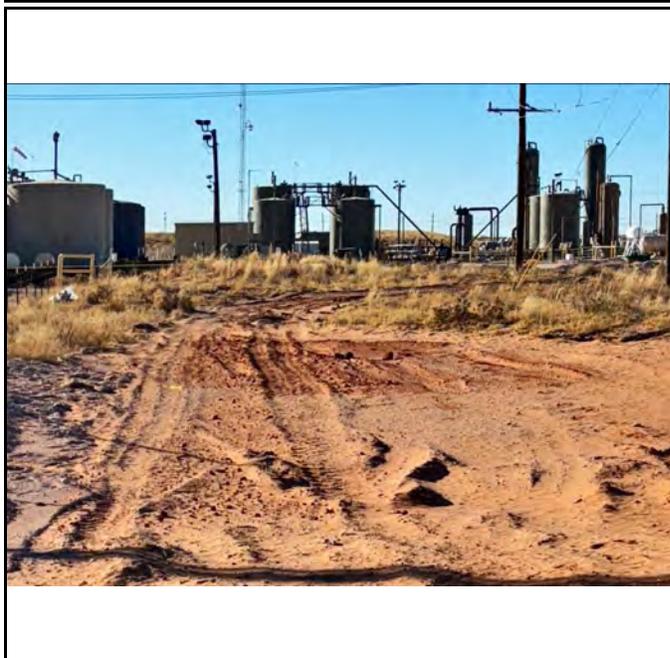


**Photographic Log**  
XTO Energy, Inc  
Big Eddy Unit DI 5 Battery  
NAPP2518958747



Photograph: 5 Date: 9/18/2025  
Description: Excavation and scrape extent  
View: Southwest

Photograph: 6 Date: 9/18/2025  
Description: Excavation around production equipment  
View: North



Photograph: 7 Date: 10/6/2025  
Description: Further excavation in scraped pasture  
View: Northwest

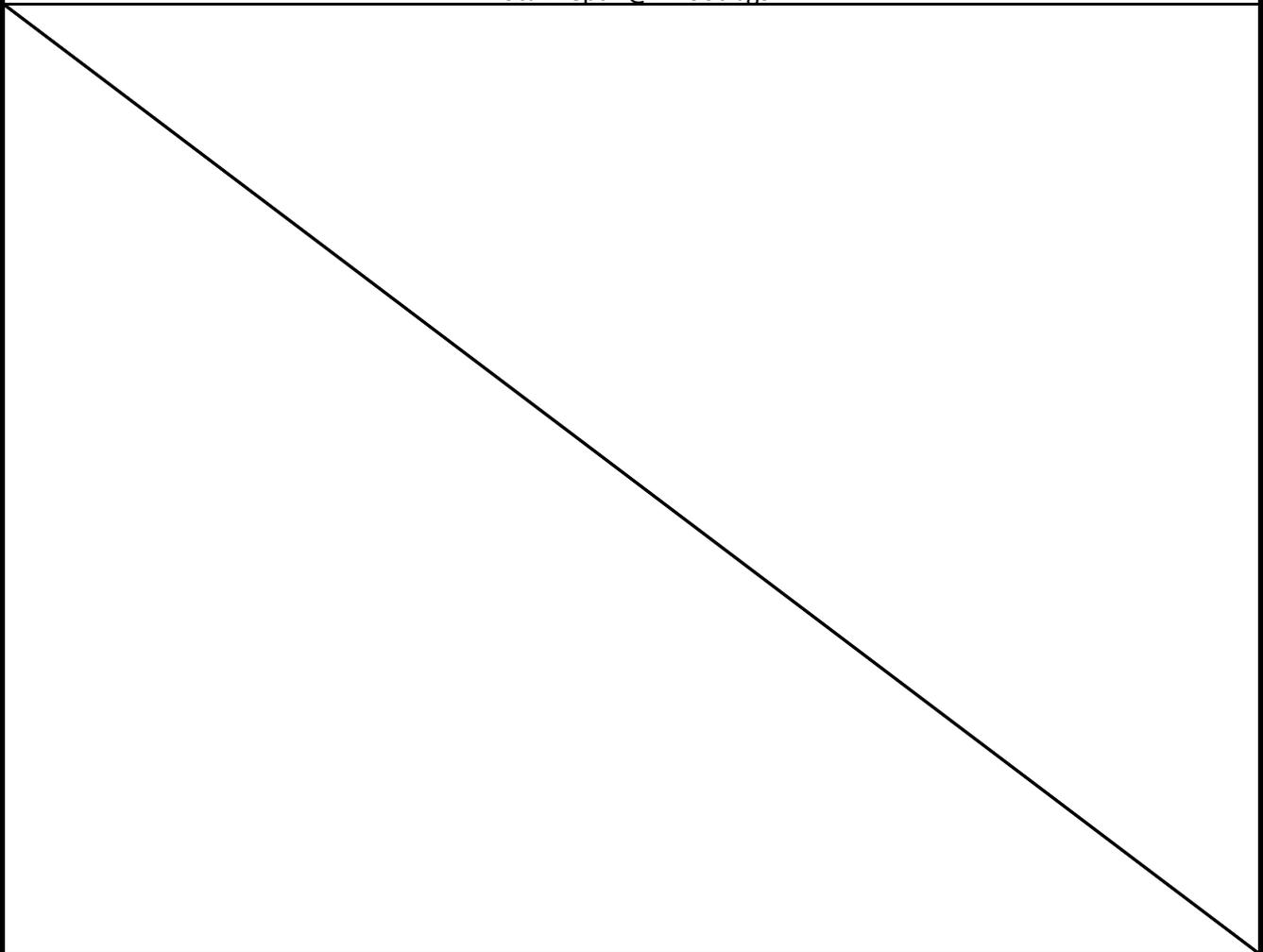
Photograph: 8 Date: 10/14/2025  
Description: Backfilled pasture area  
View: West

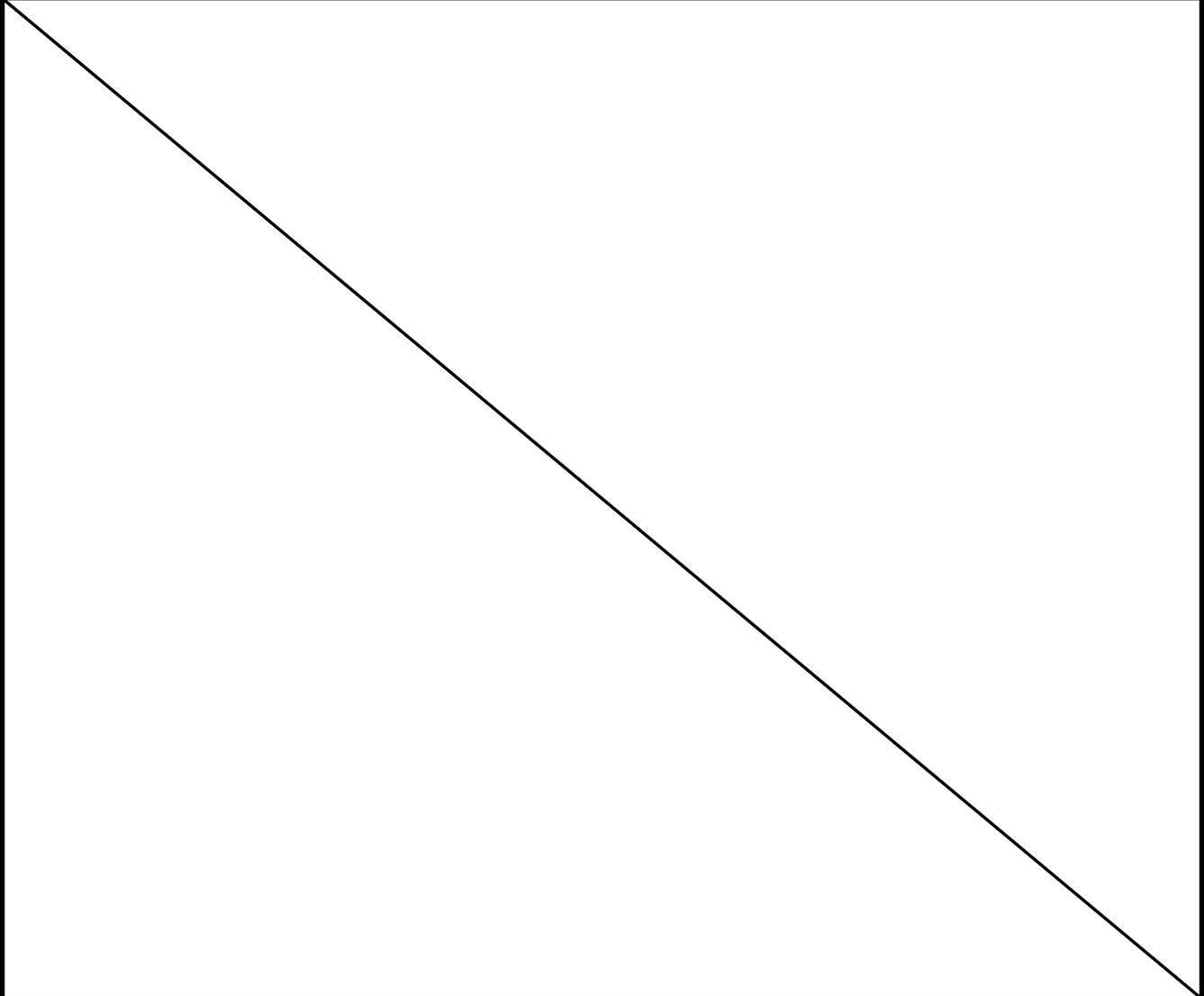


## APPENDIX D

### Lithologic Soil Sampling Logs

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					Sample Name: SS03		Date: 09.18.25	
					Site Name: Big Eddy Unit DI 5 Battery			
					Incident Number: NAPP2518958747			
					Job Number: 03C1558700			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Joshua Boxley		Method: Hand tools	
Coordinates: 32.544647, -103.853190					Hole Diameter: 6"		Total Depth: 1 foot	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	ND	0.3	N	SS03	0.5	0	SP-SM	(0-1') Red brown poorly graded sand with silt, trace clay, no odor.
D	ND	0.3	N	SS03A	1	1		
Total Depth @ 1 foot bgs.								
								

					Sample Name: SS09		Date: 09.18.25	
					Site Name: Big Eddy Unit DI 5 Battery			
					Incident Number: NAPP2518958747			
					Job Number: 03C1558700			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Joshua Boxley		Method: Backhoe	
Coordinates: 32.544581, -103.853186					Hole Diameter: 3 feet		Total Depth: 0.5 feet	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	640	8.1	Y	SS09	Surface	0	CCHE	(0-0.5') Dark beige poorly graded sand with silt and small to large pale gravel, strong odor
D	ND	0.4	N	SS09A	0.5	0.5		(@0.5') Pale beige, no odor
Total Depth @ 0.5 foot bgs.								
								



## APPENDIX E

### NMOCD Correspondence

---

**Ben Belill**

---

**From:** Woodall, Robert D <robert.d.woodall@exxonmobil.com>  
**Sent:** Friday, October 3, 2025 1:39 PM  
**To:** OCDOnline@state.nm.us  
**Cc:** Ben Belill; Tacoma Morrissey; Tracy Hillard; Kotzur, Richard  
**Subject:** XTO - Status Update - Big Eddy Unit DI 5 Battery - Incident Number nAPP2518958747

[ \*\*EXTERNAL EMAIL\*\* ]

Good morning,

XTO is providing a remediation status update for a crude oil release that resulted from a flare fire at the Big Eddy Unit DI 5 Battery (Incident Number nAPP2518958747) Site. The release occurred on July 8, 2025 and a portion of the release occurred in BLM pasture area. XTO submitted a Form 3160-5 (Sundry) to the BLM on September 3, 2025, to request access to pasture soils impacted by the release. BLM approved access on September 8, 2025. Delineation, excavation, and confirmation soil sampling were conducted at the Site between September 16 and 18, 2025. Following a review of the laboratory analytical results, additional excavation activities are warranted. The excavation activities are tentatively scheduled to begin on Monday, October, 6, 2025. In order to complete the additional excavation activities, collect confirmation soil samples from the final excavation extent, and draft a closure or remediation work plan, XTO respectfully requests a 90-day extension until January 4, 2026.

**R. Dale Woodall**  
Project Manager

**ExxonMobil Environmental and Property Solutions Company**

3104 E. Greene St.  
Carlsbad, NM 88220  
Cell Phone: 575-988-4374  
Robert.D.Woodall@exxonmobil.com



---

**RE: [EXTERNAL] XTO - Variance Request - Big Eddy Unit DI 5 - Incident Number NAPP2518958747**

---

**From** Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

**Date** Thu 9/18/2025 3:50 PM

**To** robert.d.woodall@exxonmobil.com <robert.d.woodall@exxonmobil.com>

**Cc** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Ben Belill <bbelill@ensolum.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Tracy Hillard <thillard@ensolum.com>; Kotzur, Richard <richard.kotzur@exxonmobil.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Some people who received this message don't often get email from brittany.hall@emnrd.nm.gov. [Learn why this is important](#)

[ \*\*EXTERNAL EMAIL\*\* ]

Mr. Woodall,

The variance request of the two-business day sampling notification (C-141N) requirement is approved. Please submit the C-141Ns for the applicable dates and times. Do not include a range of dates in the comment boxes on the C-141Ns. Individual C-141Ns must be submitted for all dates sampling is planned to take place.

Please be advised that OCD has created an Environmental Field Compliance Group that will be overseeing the witnessing of sampling. As such, variance requests for the two-business day notifications will be reviewed and approved/rejected by the Environmental Field Compliance Group. Additionally, variance requests must be submitted with all the information required in 19.15.29.14 A. (1) and (2) NMAC. Variance requests may be denied if good cause is not given, as determined by the division pursuant to 19.15.29.12 D.(1)(a) NMAC.

Thank you,

**Brittany Hall** • Environmental Field Compliance Supervisor  
Environmental Field Compliance Group  
EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
505.517.5333 | [Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/ocd/>

**Effective 12/1/2024:** OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**Sent:** Thursday, September 18, 2025 10:27 AM

**To:** Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>

**Subject:** FW: [EXTERNAL] XTO - Variance Request - Big Eddy Unit DI 5 - Incident Number NAPP2518958747

---

**From:** Woodall, Robert D <[robert.d.woodall@exxonmobil.com](mailto:robert.d.woodall@exxonmobil.com)>

**Sent:** Thursday, September 18, 2025 9:39 AM

**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>

**Cc:** ben belill <[bbelill@ensolum.com](mailto:bbelill@ensolum.com)>; tacoma morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>; Tracy Hillard <[thillard@ensolum.com](mailto:thillard@ensolum.com)>; Kotzur, Richard <[richard.kotzur@exxonmobil.com](mailto:richard.kotzur@exxonmobil.com)>

**Subject:** [EXTERNAL] XTO - Variance Request - Big Eddy Unit DI 5 - Incident Number NAPP2518958747

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

XTO is requesting a variance of the 48-hr sampling notification (C-141N) requirement for a spill at Big Eddy Unit DI 5 - Incident Number NAPP2518958747. A sampling notification was submitted for September 16 – September 17, 2025, however, excavation activities at the Site has been slowed due to an unexpected active polyline and simultaneous work operations in the work area. In order to complete the work around the active polyline, an additional two days of excavation and sampling is needed. XTO requests the additional samples collected may be used for closure, providing that they meet applicable closure limits. XTO requests to complete sampling September 18 and October 19, 2025. Following approval of the variance, a C-141N will be submitted via the portal and the correspondence will be included in the final report.

Please let me know if you have any questions or need more information.

R. Dale Woodall  
Project Manager

ExxonMobil Environmental and Property Solutions Company  
3104 E. Greene Street  
Carlsbad, NM 88220  
Cell Phone: 575-988-4374  
[Robert.D.Woodall@ExxonMobil.com](mailto:Robert.D.Woodall@ExxonMobil.com)



## APPENDIX F

### Laboratory Analytical Reports & Chain of Custody Documentation

---



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

September 18, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT DI 5 - FLARE FIRE

Enclosed are the results of analyses for samples received by the laboratory on 09/16/25 15:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/16/2025	Sampling Date:	09/16/2025
Reported:	09/18/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS03 0.5' (H255794-01)**

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	09/16/2025	ND	1.68	83.8	2.00	2.87	
Toluene*	<0.050	0.050	09/16/2025	ND	1.75	87.7	2.00	1.75	
Ethylbenzene*	<0.050	0.050	09/16/2025	ND	1.80	90.1	2.00	0.305	
Total Xylenes*	<0.150	0.150	09/16/2025	ND	5.58	93.0	6.00	0.693	
Total BTEX	<0.300	0.300	09/16/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/17/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2025	ND	217	108	200	1.42	
DRO >C10-C28*	<10.0	10.0	09/16/2025	ND	229	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.3 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/16/2025	Sampling Date:	09/16/2025
Reported:	09/18/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS01 0.25' (H255794-02)**

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	09/16/2025	ND	1.68	83.8	2.00	2.87	
Toluene*	<0.050	0.050	09/16/2025	ND	1.75	87.7	2.00	1.75	
Ethylbenzene*	<0.050	0.050	09/16/2025	ND	1.80	90.1	2.00	0.305	
Total Xylenes*	<0.150	0.150	09/16/2025	ND	5.58	93.0	6.00	0.693	
Total BTEX	<0.300	0.300	09/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/17/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2025	ND	217	108	200	1.42	
DRO >C10-C28*	<10.0	10.0	09/16/2025	ND	229	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.7 % 40.6-153

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:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/16/2025	Sampling Date:	09/16/2025
Reported:	09/18/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS02 0.25' (H255794-03)**

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	09/16/2025	ND	1.68	83.8	2.00	2.87	
Toluene*	<0.050	0.050	09/16/2025	ND	1.75	87.7	2.00	1.75	
Ethylbenzene*	<0.050	0.050	09/16/2025	ND	1.80	90.1	2.00	0.305	
Total Xylenes*	<0.150	0.150	09/16/2025	ND	5.58	93.0	6.00	0.693	
Total BTEX	<0.300	0.300	09/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/17/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2025	ND	217	108	200	1.42	
DRO >C10-C28*	<10.0	10.0	09/16/2025	ND	229	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/16/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/16/2025	Sampling Date:	09/16/2025
Reported:	09/18/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS04 0.25' (H255794-04)**

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	09/16/2025	ND	1.68	83.8	2.00	2.87	
Toluene*	<0.050	0.050	09/16/2025	ND	1.75	87.7	2.00	1.75	
Ethylbenzene*	<0.050	0.050	09/16/2025	ND	1.80	90.1	2.00	0.305	
Total Xylenes*	<0.150	0.150	09/16/2025	ND	5.58	93.0	6.00	0.693	
Total BTEX	<0.300	0.300	09/16/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/17/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2025	ND	217	108	200	1.42	
DRO >C10-C28*	<10.0	10.0	09/17/2025	ND	229	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/17/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/16/2025	Sampling Date:	09/16/2025
Reported:	09/18/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS05 0.25' (H255794-05)**

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	09/17/2025	ND	1.77	88.7	2.00	2.78	
Toluene*	<0.050	0.050	09/17/2025	ND	1.94	97.2	2.00	0.231	
Ethylbenzene*	<0.050	0.050	09/17/2025	ND	1.96	97.9	2.00	0.858	
Total Xylenes*	<0.150	0.150	09/17/2025	ND	5.78	96.3	6.00	1.75	
Total BTEX	<0.300	0.300	09/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/17/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2025	ND	217	108	200	1.42	
DRO >C10-C28*	<10.0	10.0	09/17/2025	ND	229	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/17/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/16/2025	Sampling Date:	09/16/2025
Reported:	09/18/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS06 0.25' (H255794-06)**

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	09/17/2025	ND	1.77	88.7	2.00	2.78	
Toluene*	<0.050	0.050	09/17/2025	ND	1.94	97.2	2.00	0.231	
Ethylbenzene*	<0.050	0.050	09/17/2025	ND	1.96	97.9	2.00	0.858	
Total Xylenes*	<0.150	0.150	09/17/2025	ND	5.78	96.3	6.00	1.75	
Total BTEX	<0.300	0.300	09/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/17/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2025	ND	217	108	200	1.42	
DRO >C10-C28*	<10.0	10.0	09/17/2025	ND	229	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/17/2025	ND					

Surrogate: 1-Chlorooctane 91.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/16/2025	Sampling Date:	09/16/2025
Reported:	09/18/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS07 0.25' (H255794-07)**

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	09/17/2025	ND	1.77	88.7	2.00	2.78		
Toluene*	<0.050	0.050	09/17/2025	ND	1.94	97.2	2.00	0.231		
Ethylbenzene*	<0.050	0.050	09/17/2025	ND	1.96	97.9	2.00	0.858		
Total Xylenes*	<0.150	0.150	09/17/2025	ND	5.78	96.3	6.00	1.75		
Total BTEX	<0.300	0.300	09/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/17/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/16/2025	ND	210	105	200	2.57		
DRO >C10-C28*	<10.0	10.0	09/16/2025	ND	203	102	200	3.88		
EXT DRO >C28-C36	<10.0	10.0	09/16/2025	ND						

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/16/2025	Sampling Date:	09/16/2025
Reported:	09/18/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS08 0.25' (H255794-08)**

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	09/17/2025	ND	1.73	86.7	2.00	1.77	
Toluene*	<0.050	0.050	09/17/2025	ND	1.78	89.1	2.00	0.228	
Ethylbenzene*	<0.050	0.050	09/17/2025	ND	1.78	89.2	2.00	1.47	
Total Xylenes*	<0.150	0.150	09/17/2025	ND	5.26	87.7	6.00	1.89	
Total BTEX	<0.300	0.300	09/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	09/17/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2025	ND	201	100	200	2.91	
<b>DRO &gt;C10-C28*</b>	<b>13.2</b>	10.0	09/16/2025	ND	195	97.3	200	0.524	
EXT DRO >C28-C36	<10.0	10.0	09/16/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.8 % 40.6-153

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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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*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**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: Ben Bell  
 Address: 3122 National Parks Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 989 854 0852 Fax #: 989 854 0852  
 Project #: 03-15-58700 Project Owner: XTO  
 Project Name: Big Eddy Unit 5 - Flare Fire  
 Project Location: 37.54463-103.85431  
 City: Carlsbad State: NM Zip: 88220  
 P.O. #: Company: XTO Energy Inc  
 Attn: Cotton Brewer Dale Wingo  
 Address: 3104 E Green St  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: Fax #:  
 Sample Name: Joshua Boxley  
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	TPH	BTEX	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
HS-794	5503	0.5	G	1			X						9.16.25	1025	X	X	
	5501	0.25	G	1			X						9.16.25	1030	X	X	
	5502		G	1			X						9.16.25	1035	X	X	
	5504		G	1			X						9.16.25	1150	X	X	
	5505		G	1			X						9.16.25	1155	X	X	
	5506		G	1			X						9.16.25	1220	X	X	
	5507		G	1			X						9.16.25	1225	X	X	
	5508	0.25	G	1			X						9.16.25	1230	X	X	

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Relinquished By: [Signature]  
 Date: 9/16/25  
 Time: 1546  
 Received By: [Signature]  
 Date: 9/16/25  
 Time: 1546  
 Delivered By: (Circle One) Observed Temp.: °C 10 Corrected Temp.: °C 15  
 Sample Condition: Cool Intact Yes [X] No [ ]  
 Checked By: [Signature]  
 Turnaround Time: Standard Rush [X]  
 Incident: APP 2518158747  
 Cost Center: 1080861001  
 Remarks: APP 2213651836  
 Bacteria (only) Sample Condition: Cool Intact Yes [X] No [ ]  
 Corrected Temp.: °C

FORM-006 R.3.2 10/07/21

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



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

---

September 22, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT DI 5 - FLARE FIRE

Enclosed are the results of analyses for samples received by the laboratory on 09/18/25 16:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/17/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 01 0.25 (H255869-01)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 70.4-141

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	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	212	106	200	2.99	
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	205	103	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.8 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/17/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 02 0.25 (H255869-02)**

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	09/19/2025	ND	2.13	106	2.00	0.319		
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806		
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691		
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18		
Total BTEX	<0.300	0.300	09/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/19/2025	ND	448	112	400	6.90		

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	09/19/2025	ND	212	106	200	2.99		
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	205	103	200	2.68		
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND						

Surrogate: 1-Chlorooctane 89.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/17/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 03 0.25 (H255869-03)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	212	106	200	2.99	
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	205	103	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 91.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/17/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 04 0.25 (H255869-04)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	212	106	200	2.99	
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	205	103	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/17/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 05 0.25 (H255869-05)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	212	106	200	2.99	
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	205	103	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/17/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS 09 SURFACE (H255869-06)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>640</b>	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	212	106	200	2.99		
<b>DRO &gt;C10-C28*</b>	<b>15700</b>	50.0	09/19/2025	ND	205	103	200	2.68		
<b>EXT DRO &gt;C28-C36</b>	<b>3690</b>	50.0	09/19/2025	ND						

Surrogate: 1-Chlorooctane 100 % 52.4-130

Surrogate: 1-Chlorooctadecane 398 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1 of 1

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Ensolum, LLC  
 Project Manager: Ben Bell  
 Address: 3122 National Parks Hwy  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #: 989 854 0652  
 Project #: 0321558790  
 Project Name: Big Eddy Unit DE 5 - Flare Fire  
 Project Location: 32.54463, -103.85431  
 P.O. #:   
 Company: XTO Energy Inc  
 Attn: Cotton Brewer, Dale Wood  
 Address: 3104 E. Green St  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #:   
 Fax #:   
 PRESERV:    
 SAMPLING:

Lab I.D.	Sample I.D.	Depth (feet)	FOR LAB USE ONLY		DATE	TIME	ANALYSIS REQUEST		
			(G)RAB OR (C)OMP.	# CONTAINERS			Chlorides	TPH	BTEX
HSS 849	CS 01	0.25	C	1	9.17.25	12.15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	CS 02	↓	↓	↓	↓	12.20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	CS 03	↓	↓	↓	↓	12.25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	CS 04	↓	↓	↓	↓	12.30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	CS 05	0.25	C	1	9.17.25	12.35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SS 09	Surface	C	1	9.17.25	12.40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Relinquished By: [Signature]  
 Date: 9-18-25  
 Received By: [Signature]  
 Date: 9-18-25  
 Time: 16:53  
 Received By: [Signature]

Delivered By: (Circle One) Observed Temp. °C: 0.4  
 Corrected Temp. °C: 0.7  
 Sample Condition:  Cool  Intact  
 Checked By: [Signature]  
 Turaround Time: 48 hr  
 Thermometer ID: #4832  
 Correction Factor: +0.32  
 Bacteria (only) Sample Condition:  Cool  Intact  
 Incident: WAPP 25181958717  
 Cost Center: 1060861001  
 Add'l Phone #: 4FCM: 48605000  
 Verbal Result:  Yes  No  Add'l Phone #: [Blank]  
 All Results are emailed. Please provide Email address: [Blank]  
 REMARKS: [Blank]



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

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October 08, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT DI 5 - FLARE FIRE

Enclosed are the results of analyses for samples received by the laboratory on 10/07/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	10/07/2025	Sampling Date:	10/06/2025
Reported:	10/08/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SW 01 0-0.5' (H256240-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2025	ND	1.95	97.7	2.00	2.55	
Toluene*	<0.050	0.050	10/07/2025	ND	1.91	95.7	2.00	2.37	
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.85	92.6	2.00	2.74	
Total Xylenes*	<0.150	0.150	10/07/2025	ND	5.37	89.4	6.00	2.85	
Total BTEX	<0.300	0.300	10/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 70.4-141

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	10/08/2025	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	10/07/2025	ND	168	84.2	200	3.42	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	167	83.7	200	2.62	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 79.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.8 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	10/07/2025	Sampling Date:	10/06/2025
Reported:	10/08/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: FS 08 0.5' (H256240-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2025	ND	1.95	97.7	2.00	2.55		
Toluene*	<0.050	0.050	10/07/2025	ND	1.91	95.7	2.00	2.37		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.85	92.6	2.00	2.74		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	5.37	89.4	6.00	2.85		
Total BTEX	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/08/2025	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	10/07/2025	ND	168	84.2	200	3.42		
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	167	83.7	200	2.62		
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND						

Surrogate: 1-Chlorooctane 77.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	10/07/2025	Sampling Date:	10/06/2025
Reported:	10/08/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: FS 09 0.5' (H256240-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2025	ND	1.95	97.7	2.00	2.55		
Toluene*	<0.050	0.050	10/07/2025	ND	1.91	95.7	2.00	2.37		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.85	92.6	2.00	2.74		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	5.37	89.4	6.00	2.85		
Total BTEX	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/08/2025	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	10/07/2025	ND	168	84.2	200	3.42		
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	167	83.7	200	2.62		
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND						

Surrogate: 1-Chlorooctane 79.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	10/07/2025	Sampling Date:	10/06/2025
Reported:	10/08/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SW 02 0-0.5' (H256240-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2025	ND	1.95	97.7	2.00	2.55		
Toluene*	<0.050	0.050	10/07/2025	ND	1.91	95.7	2.00	2.37		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.85	92.6	2.00	2.74		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	5.37	89.4	6.00	2.85		
Total BTEX	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 70.4-141

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	10/08/2025	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	10/07/2025	ND	168	84.2	200	3.42		
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	167	83.7	200	2.62		
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND						

Surrogate: 1-Chlorooctane 82.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.9 % 39.9-141

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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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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

1 of 1

Company Name: Ensolum, LLC **BILL TO** ANALYSIS REQUEST

Project Manager: Ben Bell

Address: 3122 National Parks Hwy P.O. #:

City: Carlsbad State: NM Zip: 88220 Company: XTO Energy Inc

Phone #: 989 854 0852 Fax #: Attn: Cotton Brewer Dale Wood

Project #: 03C1558700 Project Owner: XTO Address: 3104 E Green St

Project Name: Big Eddy Unit #5 - Flow Fire City: Carlsbad

Project Location: 32.54463, -103.85431 State: NM Zip: 88220

Sampler Name: Joshua Borley Phone #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HS6240	SM01	0-0.5	C	1								10.6.25	1015			
	FS06	0.5	C	1								10.6.25	1000			
	FS09	0.5	C	1								10.6.25	1005			
	SM02	0-0.5	C	1								10.6.25	1010			

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Relinquished By: [Signature] Date: 12-17-25 Received By: [Signature] Date: 12-17-25

Delivered By: (Circle One) Observed Temp. °C: 3.3 Corrected Temp. °C: 3.6

Sampler - UPS - Bus - Other: Sample Condition: Cool Intact: Yes No Checked By: (Initials) Turaround Time: 48 hr Standard Rush

FORM-006 R 3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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September 22, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT DI 5 - FLARE FIRE

Enclosed are the results of analyses for samples received by the laboratory on 09/18/25 16:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: FS 01 0.5 (H255870-01)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	223	112	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>64.3</b>	10.0	09/19/2025	ND	232	116	200	2.18	
<b>EXT DRO &gt;C28-C36</b>	<b>19.7</b>	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 76.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: FS 02 0.5 (H255870-02)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	223	112	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>74.4</b>	10.0	09/19/2025	ND	232	116	200	2.18	
<b>EXT DRO &gt;C28-C36</b>	<b>24.0</b>	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 71.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: FS 03 0.5 (H255870-03)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	223	112	200	2.59	
DRO >C10-C28*	60.6	10.0	09/19/2025	ND	232	116	200	2.18	
EXT DRO >C28-C36	20.5	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 73.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: FS 04 0.5 (H255870-04)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	223	112	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>10.6</b>	10.0	09/19/2025	ND	232	116	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 79.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: FS 05 0.5 (H255870-05)**

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	09/19/2025	ND	2.13	106	2.00	0.319		
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806		
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691		
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18		
Total BTEX	<0.300	0.300	09/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/19/2025	ND	448	112	400	6.90		

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	09/19/2025	ND	223	112	200	2.59		
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	232	116	200	2.18		
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND						

Surrogate: 1-Chlorooctane 81.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: FS 06 0.5 (H255870-06)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	223	112	200	2.59	
DRO >C10-C28*	30.8	10.0	09/19/2025	ND	232	116	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: FS 07 0.5 (H255870-07)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	223	112	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>46.1</b>	10.0	09/19/2025	ND	232	116	200	2.18	
<b>EXT DRO &gt;C28-C36</b>	<b>15.8</b>	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 87.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SW 01 0-0.5 (H255870-08)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	223	112	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>114</b>	10.0	09/19/2025	ND	232	116	200	2.18	
<b>EXT DRO &gt;C28-C36</b>	<b>41.3</b>	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS 03A 1 (H255870-09)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	223	112	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	232	116	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: SS 09A 0.5 (H255870-10)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/19/2025	ND	448	112	400	6.90	

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	09/19/2025	ND	223	112	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	232	116	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 06 0.25 (H255870-11)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/19/2025	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	09/19/2025	ND	223	112	200	2.59	
DRO >C10-C28*	99.3	10.0	09/19/2025	ND	232	116	200	2.18	
EXT DRO >C28-C36	33.4	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 82.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.9 % 39.9-141

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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 07 0.25 (H255870-12)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	09/19/2025	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	09/19/2025	ND	223	112	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>62.7</b>	10.0	09/19/2025	ND	232	116	200	2.18	
<b>EXT DRO &gt;C28-C36</b>	<b>20.7</b>	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.9 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 08 0.25 (H255870-13)**

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	09/19/2025	ND	2.13	106	2.00	0.319	
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/19/2025	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	09/19/2025	ND	223	112	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	232	116	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 09 0.25 (H255870-14)**

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	09/19/2025	ND	2.13	106	2.00	0.319		
Toluene*	<0.050	0.050	09/19/2025	ND	1.96	97.8	2.00	0.806		
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.95	97.6	2.00	0.691		
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.65	94.2	6.00	1.18		
Total BTEX	<0.300	0.300	09/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/19/2025	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	09/19/2025	ND	223	112	200	2.59		
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	232	116	200	2.18		
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND						

Surrogate: 1-Chlorooctane 85.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 10 0.25 (H255870-15)**

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	09/19/2025	ND	1.89	94.4	2.00	1.46	
Toluene*	<0.050	0.050	09/19/2025	ND	1.89	94.3	2.00	1.03	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.85	92.7	2.00	0.900	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.44	90.7	6.00	0.795	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/19/2025	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	09/19/2025	ND	223	112	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	232	116	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 85.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 11 0.25 (H255870-16)**

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	09/19/2025	ND	1.89	94.4	2.00	1.46		
Toluene*	<0.050	0.050	09/19/2025	ND	1.89	94.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.85	92.7	2.00	0.900		
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.44	90.7	6.00	0.795		
Total BTEX	<0.300	0.300	09/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/19/2025	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	09/19/2025	ND	223	112	200	2.59		
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	232	116	200	2.18		
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND						

Surrogate: 1-Chlorooctane 88.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 12 0.25 (H255870-17)**

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	09/19/2025	ND	1.89	94.4	2.00	1.46		
Toluene*	<0.050	0.050	09/19/2025	ND	1.89	94.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.85	92.7	2.00	0.900		
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.44	90.7	6.00	0.795		
Total BTEX	<0.300	0.300	09/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/19/2025	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	09/20/2025	ND	223	112	200	2.59		
DRO >C10-C28*	<10.0	10.0	09/20/2025	ND	232	116	200	2.18		
EXT DRO >C28-C36	<10.0	10.0	09/20/2025	ND						

Surrogate: 1-Chlorooctane 89.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 13 0.25 (H255870-18)**

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	09/19/2025	ND	1.89	94.4	2.00	1.46	
Toluene*	<0.050	0.050	09/19/2025	ND	1.89	94.3	2.00	1.03	
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.85	92.7	2.00	0.900	
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.44	90.7	6.00	0.795	
Total BTEX	<0.300	0.300	09/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/19/2025	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	09/20/2025	ND	223	112	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/20/2025	ND	232	116	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/20/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 14 0.25 (H255870-19)**

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	09/19/2025	ND	1.89	94.4	2.00	1.46		
Toluene*	<0.050	0.050	09/19/2025	ND	1.89	94.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.85	92.7	2.00	0.900		
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.44	90.7	6.00	0.795		
Total BTEX	<0.300	0.300	09/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/19/2025	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	09/20/2025	ND	223	112	200	2.59		
DRO >C10-C28*	<10.0	10.0	09/20/2025	ND	232	116	200	2.18		
EXT DRO >C28-C36	<10.0	10.0	09/20/2025	ND						

Surrogate: 1-Chlorooctane 86.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 BEN BELILL  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	09/18/2025	Sampling Date:	09/18/2025
Reported:	09/22/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 5 - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	03C1558700	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.54463,-103.85431		

**Sample ID: CS 15 0.25 (H255870-20)**

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	09/19/2025	ND	1.89	94.4	2.00	1.46		
Toluene*	<0.050	0.050	09/19/2025	ND	1.89	94.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	09/19/2025	ND	1.85	92.7	2.00	0.900		
Total Xylenes*	<0.150	0.150	09/19/2025	ND	5.44	90.7	6.00	0.795		
Total BTEX	<0.300	0.300	09/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/19/2025	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	09/20/2025	ND	223	112	200	2.59		
DRO >C10-C28*	<10.0	10.0	09/20/2025	ND	232	116	200	2.18		
EXT DRO >C28-C36	<10.0	10.0	09/20/2025	ND						

Surrogate: 1-Chlorooctane 88.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.8 % 39.9-141

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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

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Ben Bell  
 Address: 3122 National Parks Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 989 854 0852 Fax #: Project Owner: XTO  
 Project #: 0721558700  
 Project Name: Big Eddy Unit BE 5 - Flare Fire  
 Project Location: 32.54463, -103.85431  
 Sampler Name: Joshua Barkley  
 P.O. #: Company: XTO Energy Inc  
 Attn: Cotton Brewer Dale Wood  
 Address: 3104 E Green St  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
H5587D	F501	0.5	C	1							9/18/25	0750	X	X	X
	F502	↓	C	1							9/18/25	0753	X	X	X
	F503	↓	C	1							9/18/25	0756	X	X	X
	F504	↓	C	1							9/18/25	1220	X	X	X
	F505	↓	C	1							9/18/25	1223	X	X	X
	F506	↓	C	1							9/18/25	1225	X	X	X
	F507	0.5	C	1							9/18/25	1228	X	X	X
	SW01	0-0.5	C	1							9/18/25	1237	X	X	X
	SS03A	1	C	1							9/18/25	1315	X	X	X
	SS09A	0.5	C	1							9/18/25	0800	X	X	X

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Relinquished By: [Signature]  
 Date: 9-18-25  
 Time: 7:05  
 Received By: [Signature]  
 Date: 9-18-25  
 Time: 7:05

Delivered By: (Circle One)  
 Observed Temp. °C: 0.4  
 Corrected Temp. °C: 0.7  
 Sample Condition: Cool Intact [Yes] [No]  
 Checked By: [Signature]  
 Remarks: Incident: WAPP 2518958747  
 Cost Center: 106 086 1001  
 Turnaround Time: Standard 48 hr  
 Thermometer ID: 48630  
 Correction Factor: 0.30  
 Bacteria (only) Sample Condition: Cool Intact [Yes] [No]  
 Corrected Temp. °C: 0.4

FORM-006 R.3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Ben Bell  
 Address: 3122 National Parks Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 989 854 0852 Fax #: Project Owner: XTO  
 Project #: 0321558700  
 Project Name: Big Eddy Unit DE 5 - Flame Fire  
 Project Location: 32.54463, -103.85431  
 Sampler Name: Joshua Beasley  
 P.O. #: Company: XTO Energy Inc  
 Attn: Cotton Brewer Dale V. Bell  
 Address: 3104 E Green S. City: Carlsbad  
 State: NM Zip: 88220  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
HSS5870	C506	0.25	C	1			X				9/8/25	12:45	X	X	X
	C507		C	1			X				12:48	12:50	X	X	X
	C508		C	1			X				12:53	12:55	X	X	X
	C509		C	1			X				13:03	13:06	X	X	X
	C510		C	1			X				13:10	13:10	X	X	X
	C511		C	1			X								
	C512		C	1			X								
	C513		C	1			X								
	C514		C	1			X								
	C515	0.25	C	1			X				9/8/25	13:10	X	X	X

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Relinquished By: [Signature]  
 Date: 9/8/25  
 Received By: [Signature]  
 Date: 9/8/25  
 Time: 16:53  
 Received By: [Signature]

Delivered By: (Circle One) Observed Temp. °C: 0.4  
 Corrected Temp. °C: 0.7  
 Sample Condition: Cool Intact [X] Yes [ ] No [ ]  
 Checked By: [Signature]

FORM-006 R 3.2 10/07/21  
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



## APPENDIX G

### Spill Volume Calculation

<b>Location:</b>	<b>BEU DI 5</b>	
<b>Spill Date:</b>	<b>7/8/2025</b>	
<b>Incident #:</b>	<b>NAPP2518958747</b>	
<b>Area 1</b>		
Approximate Area =	3476	sq. ft.
Average Saturation (or depth) of spill =	0.20	inches
Average Porosity Factor =	0.15	
<b>VOLUME OF LEAK</b>		
Total Crude Oil =	2.00	bbls
Total Produced Water =	0.00	bbls
<b>TOTAL VOLUME OF LEAK</b>		
<b>Total Crude Oil =</b>	<b>2.00</b>	<b>bbls</b>
<b>Total Produced Water =</b>	<b>0.0</b>	<b>bbls</b>
<b>TOTAL VOLUME RECOVERED</b>		
<b>Total Crude Oil =</b>	<b>0.00</b>	<b>bbls</b>
<b>Total Produced Water =</b>	<b>0</b>	<b>bbls</b>

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 485448

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485448
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518958747
Incident Name	NAPP2518958747 BIG EDDY UNIT DI 5 BATTERY @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Big Eddy Unit DI 5 Battery
Date Release Discovered	07/08/2025
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	Yes
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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Pump   Crude Oil   Released: 2 BBL   Recovered: 0 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 485448

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485448
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.</b>
<i>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.</i>	

**Initial Response**

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

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

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Ashley McAfee Email: <a href="mailto:ashley.a.mcafee@exxonmobil.com">ashley.a.mcafee@exxonmobil.com</a> Date: 07/16/2025
--	--

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QUESTIONS, Page 3

Action 485448

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485448
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Site Characterization</b>	
<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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

<b>Remediation Plan</b>	
<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	No
<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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CONDITIONS

Action 485448

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485448
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	None	7/17/2025

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 536864

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 536864
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2518958747
Incident Name	NAPP2518958747 BIG EDDY UNIT DI 5 BATTERY @ G-27-20S-31E
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Big Eddy Unit DI 5 Battery
Date Release Discovered	07/08/2025
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	Yes
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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Pump   Crude Oil   Released: 2 BBL   Recovered: 0 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 536864

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 536864
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.</b>
<i>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.</i>	

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

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 12/22/2025
--	--

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QUESTIONS, Page 3

Action 536864

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 536864
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<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 75 and 100 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	96
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	98.4
GRO+DRO (EPA SW-846 Method 8015M)	74.4
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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	07/08/2025
On what date will (or did) the final sampling or liner inspection occur	10/06/2025
On what date will (or was) the remediation complete(d)	10/06/2025
What is the estimated surface area (in square feet) that will be reclaimed	3415
What is the estimated volume (in cubic yards) that will be reclaimed	60
What is the estimated surface area (in square feet) that will be remediated	3415
What is the estimated volume (in cubic yards) that will be remediated	60
<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 536864

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 536864
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

*(Select all answers below that apply.)*

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/22/2025
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*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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 5

Action 536864

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 536864
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 536864

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 536864
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>511567</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>10/06/2025</b>
What was the (estimated) number of samples that were to be gathered	<b>5</b>
What was the sampling surface area in square feet	<b>1000</b>

<b>Remediation Closure Request</b>	
<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	3415
What was the total volume (cubic yards) remediated	60
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	3415
What was the total volume (in cubic yards) reclaimed	60
Summarize any additional remediation activities not included by answers (above)	Excavation of impacted soil has mitigated potential impacts at this site. Depth to groundwater has been estimated to be between 50 and 100 feet bgs and no sensitive receptors were identified near the site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for incident number nAPP2518958747.

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/22/2025
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QUESTIONS, Page 7

Action 536864

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 536864
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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CONDITIONS

Action 536864

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 536864
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	None	2/19/2026