

November 26, 2024

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

Re: Closure Request

Big Eddy Unit DI 29 Battery

Incident Number nAPP2424738940

Lea 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 liner inspection, delineation, and soil sampling activities at the Big Eddy Unit DI 29 Battery (Site). The purpose of the liner inspection, delineation, and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remedial activities that have occurred and requesting no further action for Incident Number nAPP2424738940.

### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 21, Township 20 South, Range 32 East, in Lea County, New Mexico (32.56533°, 103.77795°) and is associated with oil and gas exploration and production on federal land managed by the Bureau of Land Management (BLM).

On August 28, 2024, the air eliminator failed resulting in the release of approximately 10 barrels (bbls) of crude oil into a lined containment. An estimated 0.02 bbls of crude oil overflowed onto the surface of the facility pad. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; all 10 bbls of fluids released within the lined containment were recovered. XTO submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) to the New Mexico Oil Conservation Division (NMOCD) on September 3, 2024. The release was assigned Incident Number nAPP2424738940.

### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to determine 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.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On October 26, 2021, a soil boring (CP-1891) was drilled within 0.5 miles of the Site utilizing a hollow-stem auger drilling rig. Soil boring CP-1891 was drilled to a depth of 55 feet bgs. Groundwater was encountered within the soil boring at 33 feet bgs. The location of the soil boring CP-1891 is depicted on Figure 1. The soil boring

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc. Closure Request Big Eddy Unit DI 29 Battery



was properly abandoned using Type I/II neat cement from 55 feet bgs to ground surface. The Well Record and Log for CP-1891 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 398 feet northwest 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). Potential site receptors are identified on Figure 1.

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

### **LINER INSPECTION AND DELINEATION ACTIVITIES**

On September 10, 2024, a 48-hour advance notice of liner inspection was provided to the NMOCD and a liner integrity inspection was conducted by Ensolum on September 12, 2024. Liner inspection results indicated the liner was not operating as designed as a tear in the liner was observed. The location of the tear was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was collected during the inspection and a photographic log is provided in Appendix B.

On November 18, 2024, Ensolum personnel returned to the Site to conduct delineation activities. One borehole (BH01) was advanced at the location of the tear in the liner identified during the liner inspection. Due to competent bedrock underlying the lined containment at the Site, borehole BH01 was completed utilizing a core drill. Three discrete delineation soil samples were collected from the borehole at depths of 0.5 feet, 4 feet, and 6 feet bgs. Soil from the borehole was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log, which is included as Appendix C. The borehole was backfilled with soil removed and the liner was repaired. Four additional delineation soil samples (SS01 through SS04) were collected around the lined containment from a depth of 0.5 feet bgs to confirm the lateral extent of the release. Borehole BH01 and the delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

The delineation 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/D; and chloride following Standard Method SM4500.

### SURFACE SCRAPING AND SOIL SAMPLING ACTIVITIES

XTO Energy, Inc. Closure Request Big Eddy Unit DI 29 Battery



Between October 11 and November 22, 2024, surface scraping and soil sampling activities were conducted to address the small release area resulting from the release overflowing the containment. The soil was removed from the release area as indicated by visible staining. The surface scraping was conducted utilizing hand tools and a backhoe and occurred on the facility pad, immediately adjacent to the lined containment. Approximately 1 cubic yard of soil was removed in a 55 square foot area. Following the removal of the stained soil, Ensolum personnel collected a 5-point composite soil sample (CS01) representing the surface scraped area. The 5-point composite soil sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil sample CS01 was collected from surface scraped area at a depth of approximately 0.5 feet bgs. The surface scraped area and CS01 locations are presented on Figure 3.

### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation and confirmation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

### **CLOSURE REQUEST**

Liner inspection, delineation, and confirmation soil sampling activities were conducted at the Site to address the August 28, 2024, release of crude oil. Laboratory analytical results for all delineation and confirmation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria. The release is delineated vertically through delineation soil samples collected within BH01, advanced at the location of the tear in the liner. The release is delineated laterally through delineation soil samples SS01 through SS04 collected outside of the release extent. Laboratory analytical results from confirmation soil sample CS01 indicated COC concentrations were below Closure Criteria, indicating the absence of impacted soil. Based on the soil sample analytical results, no further remediation was required.

Based on initial response efforts, surface scraping activities, the liner repair following delineation activities, and all soil sample laboratory analytical results compliant with the Closure Criteria, XTO respectfully requests closure for Incident Number nAPP2424738940. XTO believes these remedial actions are protective of human health, the environment, and groundwater.

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

Sincerely, Ensolum, LLC

Benjamin J. Belill Senior Geologist

CC:

Colton Brown, XTO

Kaylan Dirkx, XTO

Tacoma Morrissey Associate Principal

Mouissey

XTO Energy, Inc. Closure Request Big Eddy Unit DI 29 Battery



### BLM

### Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Confirmation Soil Sample Locations
Table 1 Soil Sample Analytical Results

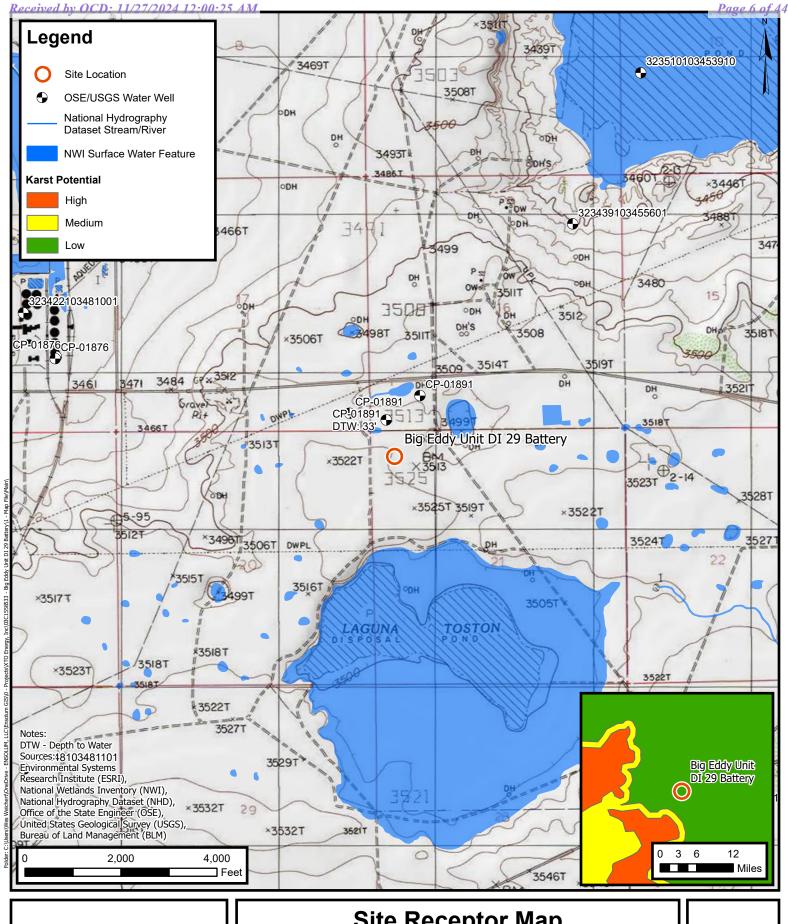
Appendix A Well Record and Log Appendix B Photographic Log

Appendix C Lithologic Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



**FIGURES** 

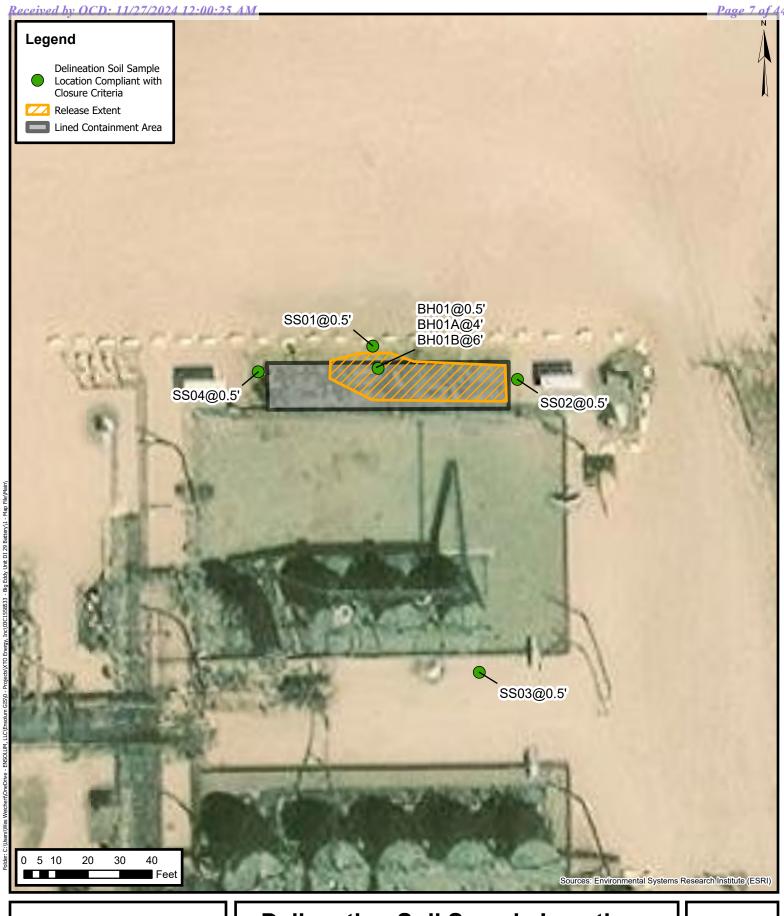




### **Site Receptor Map**

XTO Energy, Inc. Big Eddy Unit DI 29 Battery Incident Number: nAPP2424738940 Unit D, Sec 21, T20S, R32E Eddy Co, New Mexico, United States **FIGURE** 

Released to Imaging: 12/13/2024 1:54:39 PM





### Delineation Soil Sample Locations XTO Energy, Inc. Big Eddy Unit DI 29 Battery Incident Number: nAPP2424738940 Unit D, Sec 21, T20S, R32E Eddy Co. New Mexico, United States

Eddy Co, New Mexico, United States

**FIGURE** 2





### Confirmation Soil Sample Locations XTO Energy, Inc. Big Eddy Unit DI 29 Battery Incident Number: nAPP2424738940 Unit D, Sec 21, T20S, R32E Eddy Co. New Mexico, United States

Eddy Co, New Mexico, United States

**FIGURE** 3



**TABLES** 



### TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit DI 29 Battery / Incident Number nAPP2424738940 XTO Energy, Inc Lea 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)
NMOCD Table I CI	osure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delir	neation Soil Sai	nples				
SS01	11/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SS02	11/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS03	11/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS04	11/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
BH01	11/18/2024	0.5	0.067	1.57	<10.0	<10.0	<10.0	<10.0	<10.0	64
BH01A	11/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
BH01B	11/18/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
				Confi	rmation Soil Sa	mples				
CS01	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

### 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.

ion

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

Ensolum 1 of 1



**APPENDIX A** 

Referenced Well Records



11.	OSE POD NO.		.)		WELL TAG ID NO.			OSE FILE NO(S	5).			
NO	POD1 (BI	H-01)			n/a			CP-1891				
ATI	WELL OWNE	R NAME(S)						PHONE (OPTIO	ONAL)			
GENERAL AND WELL LOCATION	XTO Energ	gy (Adria	n Baker)									
LL	WELL OWNE	R MAILING	ADDRESS			-		CITY		STATE		ZIP
Æ	6401 Holid	ay Hill D	r.					Midland		TX	79707	
D			DE	GREES	MINUTES	SECONDS	_					
AN	WELL		DE	32	33	59.48		* ACCUDACY	REQUIRED: ONE TENT	HOEAS	ECOND	
AL	LOCATION	LA	TITUDE				N	the section is	QUIRED: WGS 84	n or A s.	ECOND	
KER	(FROM GPS	LO	NGITUDE	103	46	41.34	W	DATOM REC	(UIRED: WGS 84			
GE	DESCRIPTIO	N RELATIN	NG WELL LOCATION TO	STREET ADDI	RESS AND COMMON	LANDMARK	S-PLS	S (SECTION, TO	WNSHJIP, RANGE) WHI	RE AVA	ILABLE	
-	SE SE Unit	M Sec1	5 T20S R32E, NMP	M								
	r ramian Ma		Taxas en værsen									
	LICENSE NO.		NAME OF LICENSED		Jackie D. Atkins				NAME OF WELL DRI		Associates, In	ıc.
										11 1		
	DRILLING ST 10/26/2		DRILLING ENDED 10/26/2021		OMPLETED WELL (FT rary well material		DRE HO	LE DEPTH (FT) 55	DEPTH WATER FIRS	±33		-
	10/20/2		10/20/2021	tempo	rary wen materia							
	COMPLETED	WELL IS:	ARTESIAN	DRY HO	LE SHALLON	W (UNCONFI	NED)		STATIC WATER LEV	33.20		LL (FT)
NO	1-1-1-1				Energy Control of the					33.2		
ATI	DRILLING FL	.UID:	_ AIR	MUD MUD	ADDITIVI	ES – SPECIFY	<b>7</b> :					
CASING INFORMATION	DRILLING M	ETHOD:	ROTARY	HAMME	R CABLE TO	OOL 7	OTHE	R – SPECIFY:	Hollo	w Stem	Auger	
(FO	DEPTH (	feet bgl)	DODE HOLE	CASING	MATERIAL AND	/OR			CASING			
GI	FROM	ТО	BORE HOLE DIAM		GRADE			ASING NECTION	INSIDE DIAM.		NG WALL CKNESS	SLOT SIZE
SIN			(inches)		each casing string, sections of screen)		Т	YPE	(inches)		nches)	(inches)
	0	55	±8.5		Boring- HSA	(a	dd coup	ling diameter)				
2. DRILLING &			-0.0		Doing 11011		-					
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3							-			-		
JO.									<del></del>			
7							<u> </u>			-	<del></del>	
					<del></del>		-			-		
											7	
- 1	DEPTH (	(feet bgl)	BORE HOLE	L	IST ANNULAR SE	AL MATE	RIAL A	AND	AMOUNT		метно	
AL	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZE-	RANGE B	Y INTE	RVAL	(cubic feet)		PLACEM	IENT
ANNULAR MATERIAL												
IAT									DEFOIT NO	1909	021 PM4:0	9
R									and level larger land at all 1. Element	the state of the s	Section of the Sectio	Lun
ILA							-					
N.	7. 7											
3. AI						<del></del>				-		
		11										
					<del></del>							
	OSE INTER	MADUSE	Cal		I non		,		0 WELL RECORD &	LOG	Version 06/3	0/17)
	NO.	1-	1691	005	POD NO	2	/	TRN	NO. 1099	47		
LOC	ATION		205.	SZE.	14.33	)		WELL TAG II	O NO.		PAGE	1 OF 2

	DEPTH (	eet bgl)	THICKNESS	COLOR AN	D TYPE OF MATERIAL E	NCOUN	TERED -		WA	ΓER	ESTIMATED YIELD FOR
	FROM	то	(feet)		R-BEARING CAVITIES OF				BEAR		WATER-
	TROM	10	(223)	(attach sup	plemental sheets to fully de	scribe a	ll units)		(YES	(NO)	BEARING ZONES (gpm)
	0	4	4	Са	liche, Mod. Consolidated, T	an, Dry			Y	✓ N	
	4	8	4	Sand, fine	-very grained, poorly graded	, Brown	, moist		Y	✓ N	
	8	16	8	Sand, fine-very grain	ned, poorly graded, with gra	vel Pinki	sh Brown, moi	st	Y	√ N	
	16	20	4	Sand, fine-very grained	l, poorly graded, with clayey	gravel,	Light Brown, n	noist	Y	√N	
	20	26	6	Clayey Sand, very fi	ne grained, poorly graded, c	aliche gr	avel, Tan, moi	st	Y	✓ N	
T	26	36	10	Clayey Sand, med-fin	e grained, poorly graded, cal	liche gra	vel, Brown , m	oist	<b>√</b> Y	N	
WEI	36	49	13	Sandstone, mod con	solidated, with increasing cla	ay Reddi	sh Brown, Moi	st	✓ Y	N	
4. HYDROGEOLOGIC LOG OF WELL	49	55	6	Claystone,	low plasticity, cohesive, Dar	rk Brown	n, moist		<b>√</b> Y	N	
507								, ,	Y	N	
COL									Y	N	
000									Y	N	
GEO									Y	N	
RO									Y	N	
HYI									Y	N	
4.									Y	N	
									Y	N	
									Y	N	
139									Y	N	
									Y	N	
									Y	N	
					4				Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING	STRATA:			TOTA	AL ESTIN	IATED	
	PUMI	P	IR LIFT	BAILER OT	HER - SPECIFY:			WEL	L YIELD	(gpm):	0.00
N	WELL TES				A COLLECTED DURING '						
VISION	MISCELLA	NEOLIS INF	OPMATION:								
ERV	MISCELLA	ALOUS IIVI	to	emporary well materia surface with augers a	lls removed and the soil b	oring p	lugged using	Туре	I/II neat	cement f	rom total depth
TEST; RIG SUPER				ogs adapted from WSI							
RIG											
ST;	DD D WELLAN	E(0) OF D	W. N. AVA								
5. TF			RILL RIG SUPER	(VISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION OI	WELL CONS	TRUC	CTION O	THER TH	IAN LICENSEE:
	Shane Eldric	ige									
					EST OF HIS OR HER KNO						
SIGNATURE					D THAT HE OR SHE WILL PLETION OF WELL DRILL		THIS WELL R	ECOR	D WITH	THE STA	ATE ENGINEER
IAT											
SIG	Jack A	tkins		Jac	kie D. Atkins				11/16	/2021	
6.5	0	SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME	_	-			DATE	
		DIGITAL	ORD OF DRIEEL	A / IKINI BIONEE!	W MYLL					DATE	
	OSE INTER	NAL USE						L REC	CORD &	LOG (Ve	rsion 06/30/2017)
-	E NO.				POD NO.		TRN NO.				T
LO	CATION					WELL	TAG ID NO.				PAGE 2 OF 2



**APPENDIX B** 

Photographic Log



### **Photographic Log**

XTO Energy, Inc Big Eddy Unit DI 29 Battery Incident Number nAPP2424738940





Photograph: 1 Date: 9/12/2024

Description: Liner inspection activities, facility sign.

View: East

Photograph: 2 Date: 9/12/2024

Description: Liner inspection activities.

View: South





Photograph: 3 Date: 9/12/2024

Description: Liner inspection activities, liner breach.

View: Southeast

Photograph: 4 Date: 9/12/2024

Description: Liner inspection activities.

View: West



### **Photographic Log**

XTO Energy, Inc Big Eddy Unit DI 29 Battery Incident Number nAPP2424738940





Photograph: 5 Date: 10/11/2024

Description: Surface scraping activities.

View: West

Photograph: 6 Date: 10/11/2024

Description: Surface scraping activities.

View: West





Photograph: 7 Date: 11/18/2024

Description: Delineation activities, BH01.

View: South

Photograph: 8 Date: 11/20/2024

Description: Patching of BH01.

View: Southwest



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 11/18/2024
								Site Name: Big Eddy Unit DI 29 Bat	
			IN	3	OI	_ U	V	Incident Number: Napp242473894	
								Job Number: 03C1558533	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: JB	Method: Core Drill
Coord		2.565339						Hole Diameter: 2"	Total Depth: 6' bgs
					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respec	tively. Chloride test
perfor	med with	n 1:4 dilu	tion f	actor of so	il to distilled	water. No c	orrection	factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
					4	0	CCHE	0-1', CALICHE, tan, moist, so brown staining, H/C odor.	ome sand, light
М	<179	189	Υ	BH01	0.5	-		brown staining, n/C odor.	
М	<179	117	Υ		1	1			
IVI	\1/3	11/	ı			_	CL	1'-3', CLAY, moist, dark brow cohesive, brown staining, r	vn, low plasticity,
					4	_		cohesive, brown staining, r	mild H/C odor.
М	<179	38.6	Υ		2	_ 2			
					+	-		@2.5', no stain, no odor.	
	4 = 0				_	-		@2.5 , 110 Stairl, 110 Odor.	
M	<179	11.4	N		3	3	CCHF	3'-5', CALICHE, beige, moist,	some sub-angular
						_	00112	gravel, no stain, no odor.	, some sub ungular
М	<179	4.8	N	BH01A	4	<u> </u>			
					1	-			
					4	_			
M	<179	4.1	N		5 _	5	CI	FICICIAV manist branco la	plantinit.
					1	-	CL	5'-6', CLAY, moist, brown, lo cohesive, some gravel, no	stain, no odor.
N 4	<179	1.0	N	DUO1D	6				·
M	<1/9	1.8	IN	BH01B	٥	6	TD	Total depth at 6 feet bgs.	
					4	_			
						7			
					+	-			
					1	_			
					4	8			
						- -			
					+	9			
					1	_			
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						12			



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



November 21, 2024

BEN BELILL

**ENSOLUM** 

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BEU DI 29 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/19/24 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 11/19/2024 Sampling Date: 11/18/2024

Reported: 11/21/2024 Sampling Type: Soil Project Name: BEU DI 29 BATTERY Sampling Condition: Coo

Project Name: BEU DI 29 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558533 Sample Received By: Tamara Oldaker

Project Location: XTO 32.56533,-103.77795

### Sample ID: SS 01 0.5 (H247046-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2024	ND	1.89	94.7	2.00	9.03	
Toluene*	<0.050	0.050	11/19/2024	ND	1.81	90.4	2.00	9.38	
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	1.81	90.5	2.00	8.52	
Total Xylenes*	<0.150	0.150	11/19/2024	ND	5.34	89.1	6.00	8.88	
Total BTEX	<0.300	0.300	11/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/20/2024	ND	432	108	400	10.5	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2024	ND	232	116	200	2.08	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	216	108	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



### Analytical Results For:

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

Received: 11/19/2024 Sampling Date: 11/18/2024

Reported: 11/21/2024 Sampling Type: Soil

Project Name: BEU DI 29 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558533 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.56533,-103.77795

mg/kg

### Sample ID: SS 02 0.5 (H247046-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2024	ND	1.89	94.7	2.00	9.03	
Toluene*	<0.050	0.050	11/19/2024	ND	1.81	90.4	2.00	9.38	
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	1.81	90.5	2.00	8.52	
Total Xylenes*	<0.150	0.150	11/19/2024	ND	5.34	89.1	6.00	8.88	
Total BTEX	<0.300	0.300	11/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/20/2024	ND	432	108	400	10.5	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2024	ND	232	116	200	2.08	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	216	108	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.2	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 11/19/2024 Sampling Date: 11/18/2024

Reported: 11/21/2024 Sampling Type: Soil

Project Name: BEU DI 29 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558533 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.56533,-103.77795

ma/ka

### Sample ID: SS 03 0.5 (H247046-03)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2024	ND	1.89	94.7	2.00	9.03	
Toluene*	<0.050	0.050	11/19/2024	ND	1.81	90.4	2.00	9.38	
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	1.81	90.5	2.00	8.52	
Total Xylenes*	<0.150	0.150	11/19/2024	ND	5.34	89.1	6.00	8.88	
Total BTEX	<0.300	0.300	11/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/20/2024	ND	432	108	400	10.5	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2024	ND	232	116	200	2.08	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	216	108	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 11/19/2024 Sampling Date: 11/18/2024

Reported: 11/21/2024 Sampling Type: Soil

Project Name: BEU DI 29 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558533 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.56533,-103.77795

mg/kg

### Sample ID: SS 04 0.5 (H247046-04)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2024	ND	1.89	94.7	2.00	9.03	
Toluene*	<0.050	0.050	11/19/2024	ND	1.81	90.4	2.00	9.38	
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	1.81	90.5	2.00	8.52	
Total Xylenes*	<0.150	0.150	11/19/2024	ND	5.34	89.1	6.00	8.88	
Total BTEX	<0.300	0.300	11/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/20/2024	ND	432	108	400	10.5	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2024	ND	232	116	200	2.08	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	216	108	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 11/19/2024 Sampling Date: 11/18/2024

Reported: 11/21/2024 Sampling Type: Soil

Project Name: BEU DI 29 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558533 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.56533,-103.77795

mg/kg

### Sample ID: BH 01 0.5 (H247046-05)

BTEX 8021B

	9	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.067	0.050	11/19/2024	ND	1.89	94.7	2.00	9.03	
Toluene*	0.286	0.050	11/19/2024	ND	1.81	90.4	2.00	9.38	
Ethylbenzene*	0.182	0.050	11/19/2024	ND	1.81	90.5	2.00	8.52	
Total Xylenes*	1.04	0.150	11/19/2024	ND	5.34	89.1	6.00	8.88	
Total BTEX	1.57	0.300	11/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/20/2024	ND	432	108	400	10.5	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2024	ND	232	116	200	2.08	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	216	108	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					
Surrogate: 1-Chlorooctane	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 11/19/2024 Sampling Date: 11/18/2024

Reported: 11/21/2024 Sampling Type: Soil

Project Name: BEU DI 29 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558533 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.56533,-103.77795

mg/kg

### Sample ID: BH 01A 4 (H247046-06)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2024	ND	1.89	94.7	2.00	9.03	
Toluene*	<0.050	0.050	11/19/2024	ND	1.81	90.4	2.00	9.38	
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	1.81	90.5	2.00	8.52	
Total Xylenes*	<0.150	0.150	11/19/2024	ND	5.34	89.1	6.00	8.88	
Total BTEX	<0.300	0.300	11/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/20/2024	ND	432	108	400	10.5	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2024	ND	232	116	200	2.08	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	216	108	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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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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Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

> Observed Tamp. Time:

ô റ് 0.3

Yes 14 Yes

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

☐ Yes ☐ Yes ☐ No ☐ No Cool Intact

Corrected Temp. °C

Cost Center: 210825 100 REMARKS: MAP 2474 758 1986 !!

 Verbal Result:
 □ Yes
 □ No
 |Add'l Phone #:

 All Results are emailed. Please provide Email address:
 | Place | Place

Relinquished By:

Received By

## 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

P.O. #:	
Company: XTO Energy Inc	
Attn: Colton Brown	
Address: 3104 E Green St	
City: Carlsbad	
State: NM Zip: 88220	
Phone #:	
Fax #:	
RIX PRESERV SAMPLING	
OIL SEUDGE OTHER: ACID/BASE: ICE / COOL OTHER:  TIME SƏPIJOILO	BTEX H9T
×	XXX
025/	
0021	
5160	
5501	3
A 5221 hr.8111 A	X
	Company: XTO Energy Inc Attn: Colton Brown Address: 3104 E Green St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #: PRESERV. SAMPLING OT CITY SAMPLING OT C



November 21, 2024

BEN BELILL

**ENSOLUM** 

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BEU DI 29 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/19/24 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 11/19/2024 Sampling Date: 11/18/2024 Reported: 11/21/2024 Sampling Type: Soil

Project Name: BEU DI 29 BATTERY Sampling Condition: Cool & Intact Project Number: 03C1558533 Sample Received By: Tamara Oldaker

Project Location: XTO 32.56533,-103.77795

### Sample ID: BH 01 B 6 (H247047-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2024	ND	1.89	94.7	2.00	9.03	
Toluene*	<0.050	0.050	11/19/2024	ND	1.81	90.4	2.00	9.38	
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	1.81	90.5	2.00	8.52	
Total Xylenes*	<0.150	0.150	11/19/2024	ND	5.34	89.1	6.00	8.88	
Total BTEX	<0.300	0.300	11/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/20/2024	ND	432	108	400	10.5	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2024	ND	232	116	200	2.08	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	216	108	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

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Celey D. Keene



### **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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Celeg D. Freene

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

## 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326	(575) 393-2326 FAX (575) 393-2476					(
Company Name: Ensolum, LLC	•	BILL TO		AN	ANALYSIS REQUEST	ST
Project Manager: "Ry Telill		P.O. #:				
Address: 3122 National Parks Hwy		Company: XTO Energy Inc	Inc	_		
City: Carlsbad	State: NM Zip: 88220	Attn: Colton Brown		_		
Phone #: 989 454 8852	Fax #:	Address: 3104 E Green St	St	_		
	Project Owner: XTO	City: Carlsbad				
Project Name: FJR Big Eddy	5	State: NM Zip: 88220		_		
Project Location: 32,565 33	-(03.77795	Phone #:				
Sampler Name: Joshua Boxley		Fax #:				
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	LING			
Lab I.D. Sample I.D.	(G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chlorides	X3T8 HqT		
SIONS 1			X Opri	XX		
			\			
			\			,
PLEASE NOTE: Liability and Damages. Cardinal's liability and analyses. All claims including those for negligence and any of	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	act or tort, shall be limited to the amount paid and received by Cardinal within 30 days after	by the client for the completion of the applicable			
service. In no event shall Cardinal be liable for incidental or conse affiliates or successors arising out of or related to the performance	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	is, loss of use, or loss of profits incurred by cl im is based upon any of the above stated rea				
5	Date: 924 Received By:	Malle	Verbal Result: All Results are em	☐ Yes ☐ No ☐ Add'l Phone #: emailed. Please provide Email address: @ensolum.com, TMorrissey@ensolum.	Add'I Phone #: ride Email address: orrissey@ensolum.com, K1	☐ Yes ☐ No ☐ Add'l Phone #: emailed. Please provide Email address: @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
Relinquished By:	Date: Received By:	Chroman de	REMARKS:	2271128		
			Incident: NAT '	1010111		
		OUEOKED BY.	17	100 679017	Racteria (only) Sample Condition	anle Condition
Delivered by: (Circle One)	200	(Initials)	(Japp)	Na My Rush	Cool Intact Ol	Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected lemp. C 0, 2	7.	Correction Factor -0	BC 70 11/19/24	No No Co	Corrected Temp. °C



November 25, 2024

BEN BELILL

**ENSOLUM** 

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BEU DI 29 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 12:06.

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

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 11/22/2024 Sampling Date: 11/22/2024

Reported: 11/25/2024 Sampling Type: Soil

Project Name: BEU DI 29 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558533 Sample Received By: Alyssa Parras

A ..... I ..... . J D. ... 711

Project Location: XTO 32.56533,-103.77795

### Sample ID: CS 01 0.5 (H247173-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.10	105	2.00	2.03	
Toluene*	< 0.050	0.050	11/22/2024	ND	2.14	107	2.00	2.41	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.10	105	2.00	2.61	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.24	104	6.00	2.90	
Total BTEX	<0.300	0.300	11/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/25/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	187	93.3	200	2.92	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	190	95.1	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					
Surrogate: 1-Chlorooctane	66.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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

Me Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



### **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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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

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

## 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Toplect Manager: % ME(III Company; XTO Energy Inc Address: 3122 National Parks Hwy  discrete: 48d 454 0552 Fax #: Address: 3104 E Green St roject Location: 32.5653, -105.11195 Project Name: Location: 32.5653, -105.11195 Phone #:  sampler Name: Joshua Boxley Preservi Shade: NM Zip: 88220 Phone #:  FOR LAB I.D. Sample I.D. (feet) AB TO JOHN ARIX PRESERVI SAMPLING  G
Hdl Hdl Person P

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

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

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

QUESTIONS

Action 406778

### **QUESTIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	406778
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2424738940
Incident Name	NAPP2424738940 BIG EDDY UNIT DI 29 BATTERY @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Big Eddy Unit DI 29 Battery
Date Release Discovered 08/28/2024	
Surface Owner	Federal

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

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

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

QUESTIONS, Page 2

Action 406778

QUESTIONS (	continued)
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Operator:	OGRID:		
XTO ENERGY, INC	5380		
6401 Holiday Hill Road Midland, TX 79707	Action Number: 406778		
Wildiand, 1X 13101	Action Type:		
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)		
QUESTIONS			
Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.		
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No		
Reasons why this would be considered a submission for a notification of a major release	Unavailable.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.		
L w v a			
Initial Response			
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury. T		
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True		
All free liquids and recoverable materials have been removed and managed appropriately	True		
If all the actions described above have not been undertaken, explain why	Not answered.		
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.		
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or		
I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 09/03/2024		

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

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

QUESTIONS, Page 3

Action 406778

**QUESTIONS** (continued)

OGRID: Operator XTO ENERGY, INC 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 406778 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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 300 and 500 (ft.)
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

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in m	illigrams per kilograms.)
Chloride (EPA 300.0 or SM4500 CI B)	256
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes complete which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	11/22/2024
On what date will (or did) the final sampling or liner inspection occur	11/22/2024
On what date will (or was) the remediation complete(d)	11/22/2024
What is the estimated surface area (in square feet) that will be reclaimed	1155
What is the estimated volume (in cubic yards) that will be reclaimed	172
What is the estimated surface area (in square feet) that will be remediated	55
What is the estimated volume (in cubic yards) that will be remediated	1
These estimated dates and measurements are recognized to be the best guess or calculation at the	ne time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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

QUESTIONS, Page 4

Action 406778

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	406778
	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 off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	
D 0 1 " D (40 45 00 44 NAAO 1 " " 1 1 1 1 " " 1 1 1 1 1 1 1 1 1 1	T	

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.

Name: Kailee Smith
Title: Regulatory Analyst

Email: kailee Smith@exxonr

Email: kailee.smith@exxonmobil.com Date: 11/26/2024

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

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## 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 406778

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	406778
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

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

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

QUESTIONS, Page 6

Action 406778

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	406778
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	402928
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/22/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	55
What was the total volume (cubic yards) remediated	1
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	1155
What was the total volume (in cubic yards) reclaimed	172
Summarize any additional remediation activities not included by answers (above)	Liner inspection, delineation, and confirmation soil sampling activities were conducted at the Site to address the August 28, 2024, release of crude oil. Laboratory analytical results for all delineation and confirmation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria. The release is delineated vertically through delineation soil samples collected within BH01, advanced at the location of the tear in the liner. The release is delineated laterally through delineation soil samples SS01 through SS04 collected outside of the release extent. Laboratory analytical results from confirmation soil sample CS01 indicated COC concentrations were below Closure Criteria, indicating the absence of impacted soil. Based on the soil sample analytical results, no further remediation was required. Based on initial response efforts, surface scraping activities, the liner repair following delineation activities, and all soil sample laboratory analytical results compliant with the Closure Criteria, XTO respectfully requests closure for Incident Number nAPP2424738940.

The responsible party must attach information demonstrating they have compiled 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 or 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 oil to the above statement	Name: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com
	Date: 11/26/2024

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

QUESTIONS, Page 7

Action 406778

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	406778
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

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

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

CONDITIONS

Action 406778

### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	406778
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	12/13/2024