

May 12, 2025

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

Re: Closure Request

Ross Draw 25 #31 Battery

Incident Number nAPP2504152469

**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 the findings of a liner integrity inspection and excavation and soil sampling activities conducted at the Ross Draw 25 #31 Battery (Site) following a release of produced water. Based on the liner integrity inspection, excavation, and soil sampling activities completed, XTO is submitting this *Closure Request*, describing all remediation activities that have occurred and requesting closure for Incident Number nAPP2504152469.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 25, Township 26 South, Range 29 East in Eddy County, New Mexico (32.019272°, -103.941751°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 10, 2025, a valve on a saltwater disposal pump was inadvertently left open resulting in the release of 7 barrels (bbls) of produced water into a lined containment and onto the pad surface. A vacuum truck was dispatched to the Site to recover free-standing fluid, and all released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) on February 10, 2025, and an Initial C-141 Application (C-141) on February 11, 2025. The release was assigned Incident Number nAPP2504152469.

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table 1, 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 and potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. In July 2021, a soil boring permitted by New Mexico Office of the State Engineer (C-4561) was completed approximately 0.1 miles north of the Site utilizing hollow stem auger method. Soil boring C-4561 was drilled to a depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for

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

XTO Energy, Inc. Closure Request Ross Draw 25 #31 Battery

potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 850 feet south 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 underlain by unstable geology (medium 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

#### **LINER INTEGRITY INSPECTION ACTIVITIES**

After a review of the C-141 and release photographs it was confirmed the release occurred within a lined containment. The lined containment was cleaned of all debris, power washed, and a 48-hour advance notice of the liner inspection was submitted on March 12, 2025. On March 17, 2025, the lined containment was inspected by Ensolum personnel and was determined to be operating as designed. Upon inspection, no rips, tears, holes, or damage were observed and the liner was determined to be sufficient. Photographic documentation of the inspection is included in Appendix B.

#### **DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES**

On March 21, 2025, Ensolum personnel returned to the Site to complete delineation soil sampling activities. Four delineation soil samples, SS01 through SS04, were collected from a depth of approximately 0.5 feet bgs around the release extent area to define the lateral extent of the release. On April 3, 2025, Ensolum personnel oversaw excavation activities utilizing a backhoe and transport vehicles. The entire release extent area was excavated to approximately 2 feet bgs. Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor and sidewall of the excavated area. 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. Confirmation soil sample FS01 was collected from the floor of the excavation from a depth of 2 feet bgs. Confirmation soil sample SW01 was collected from the sidewall of the excavation at depths ranging from ground surface to 2 feet bgs. All soil samples collected were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Photographic documentation of all Site activities are included in Appendix B. The release extent, excavation extent, delineation and confirmation soil sample locations are depicted in Figure 2.

The 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



XTO Energy, Inc. Closure Request Ross Draw 25 #31 Battery

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 Methods SM4500.

The final excavation extent measured an estimated 184 square feet. A total of 13 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

Laboratory analytical results for confirmation sidewall soil sample SW01 indicated chloride concentrations of 688 mg/kg, slightly exceeding Closure Criteria. On April 25, 2025, Ensolum personnel returned to the Site to oversee additional excavation activities. The sidewall of the excavation was extended laterally, removing soil impacts identified in confirmation soil sample SW01. Excavation sidewall soil sample SW01A was subsequently collected from the sidewall of the excavation from depths ranging from ground surface to 2 feet bgs. The sidewall soil sample was collected, handled, and analyzed for the same COCs mentioned above.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS04, collected outside the release extent indicated all COCs were in compliance with Site Closure Criteria, successfully defining the lateral extent of the release. Laboratory analytical results for confirmation soil samples FS01 and SW01A indicated all COCs were in compliance with Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and all laboratory analytical reports are included in Appendix C.

#### **CLOSURE REQUEST**

Liner integrity inspection activities were conducted following the February 10, 2025, release of produced water. Following removal of all released fluids and debris, a liner integrity inspection was conducted and the liner was determined to be operating as designed. Excavation activities were conducted to address the released fluids on the surface of the pad. All final confirmation soil samples collected from the final excavation extent indicated all COC concentrations were below Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with caliche material purchased locally and recontour the Site to match pre-existing Site conditions.

XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2504152469.

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

Sincerely, **Ensolum, LLC** 

Kim Thomason Senior Technician

Tacoma Morrissey, M.S. Associate Principal

Mouissey



XTO Energy, Inc. Closure Request Ross Draw 25 #31 Battery

cc: Robert Woodall, XTO

Kaylan Dirkx, XTO

BLM

### Appendices:

Figure 1 Site Receptor Map Figure 2 Soil Sample Locations

Table 1 Soil Sample Analytical Results Appendix A Referenced Well Records

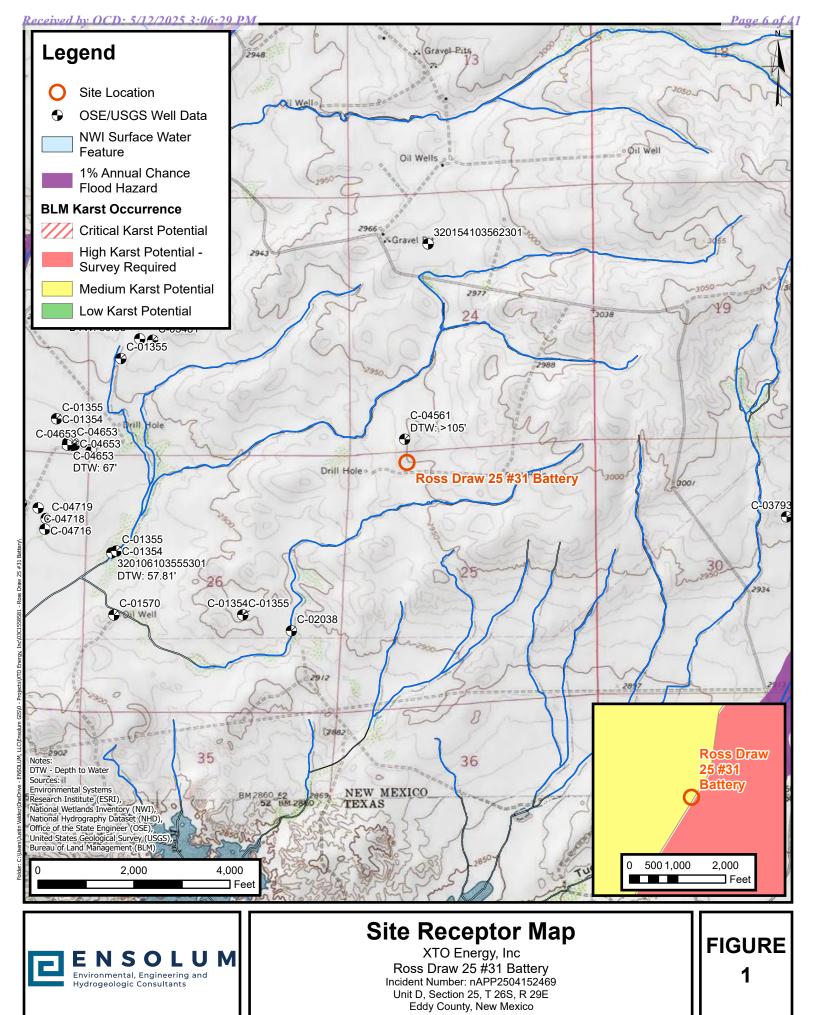
Appendix B Photographic Log

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

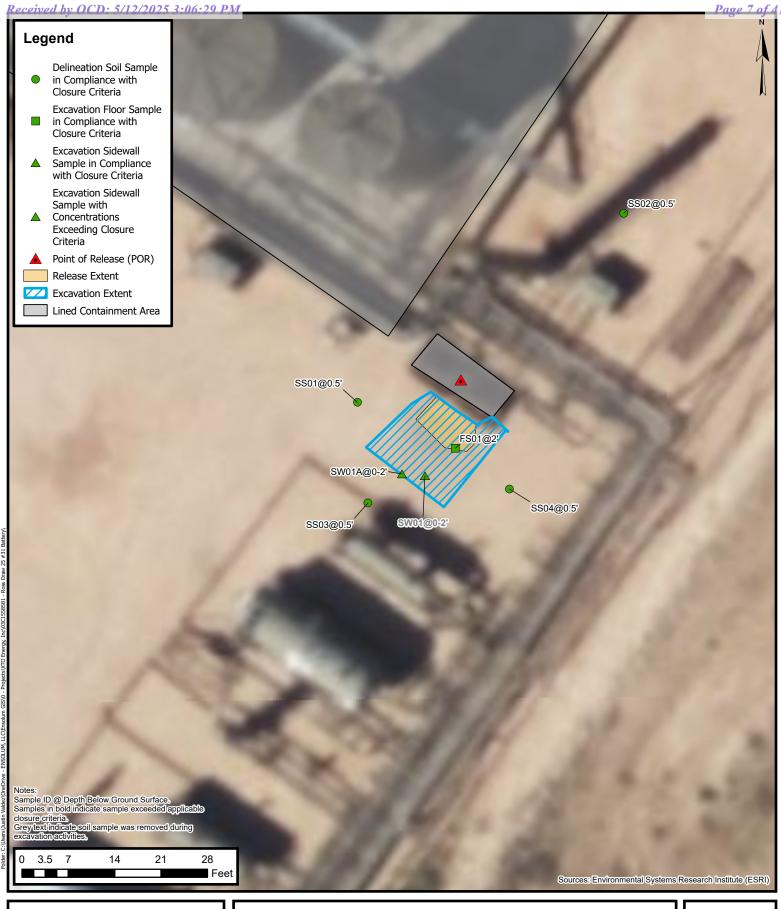




**FIGURES** 



Released to Imaging: 7/2/2025 11:32:36 AM





### **Excavation Soil Sample Locations**

XTO Energy, Inc Ross Draw 25 #31 Battery Incident Number: nAPP2504152469 Unit D, Section 25, T 26S, R 29E Eddy County, New Mexico FIGURE 2



**TABLES** 



#### TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** Ross Draw 25 #31 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)
NMOCD Table I Cl	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delir	neation Soil Sai	nples		<u> </u>		
SS01	03/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS02	03/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SS03	03/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	03/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
				Confi	rmation Soil Sa	mples				
FS01	04/03/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
SW01	04/03/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688
SW01A	04/25/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320

#### 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

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

Ensolum 1 of 1



**APPENDIX A** 

Referenced Well Records

### WELL RECORD & LOG OFFICE OF THE STATE ENGINEER www.ose.state.nm.us

0SE 011 AUG 17 2021 PG:11

NO	OSE POD NO POD1 (B	-	.)			OSE FILE NO(S C-4561	S).			-					
GENERAL AND WELL LOCATION	WELL OWN			· ·	<u> </u>			PHONE (OPTIO	ONAL)						
77	WELL OWN	ER MAILING	ADDRESS			-		CITY	····	STATE		ZIP			
WEL	6401 Holid							Midland		TX	79707				
身	WELL DEGREES MINUTES SECONDS														
LA	LOCATIO	ON LA	ITTUDE	32	1	14.1	17 <sub>N</sub>	* ACCURACY	REQUIRED: ONE TENT	TH OF A	SECOND				
VERA	(FROM GE	· (25	NGITUDE	103	83 W	DATUM REQUIRED: WGS 84									
1. GE	DESCRIPTION SE SW Se		NG WELL LOCATION TO R33E	STREET ADD	RESS AND COMMON	LANDMA	arks – pls	S (SECTION, TO	wnshjip, range) wh	ERE AVA	AILABLE				
	LICENSE NO	).	NAME OF LICENSED	DRILLER					NAME OF WELL DR	LLING C	COMPANY	-			
:	124				Jackie D. Atkins						g Associates, I	nc.			
	DRILLING S 07/28/		07/28/2021		OMPLETED WELL (Fi rary well materia			LE DEPTH (FT) 105	DEPTH WATER FIRS	st enco n/a					
z	COMPLETED WELL IS: ARTESIAN DY HOLE SHALLOW (UNCONFINED)										OMPLETED WE	LL (FT)			
ATIO.	DRILLING F	LUID:	☐ AIR	☐ MUD	ADDITIV	ES – SPEC	IFY:					i			
2. DRILLING & CASING INFORMATION	DRILLING N	ÆTHOD:	ROTARY	НАММЕ	R – SPECIFY:	Hollo	w Sten	n Auger							
Z	DEPTH (feet bgl)  BORE HOLE  CASING MATERIAL AND/OR  CAS							SING	CASING	CAS	ING WALL	SLOT			
وَ	FROM TO DIAM GRADE CONN						ECTION	INSIDE DIAM.		ICKNESS	SIZE				
l Si			(inches)	(include each casing string, and note sections of screen)  TYPE (add coupling dia					(inches)	(	(inch <del>e</del> s)	(inches)			
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	DEPTH	(feet bgl)	BORE HOLE	ŧ	IST ANNULAR SI				AMOUNT		METHO				
₹	FROM	TO	DIAM. (inches)	GR.A	VEL PACK SIZE	-RANGE	BY INTE	RVAL	(cubic feet)		PLACEM	TENT			
MA															
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AL.															
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		L						_							
FOR	OSE INTER	NAL USE			. ,	- CO		WR-2	0 WELL RECORD	& LOG	(Version 06/3	0/17)			

WELL TAG ID NO.

PAGE 1 OF 2

LOCATION

	DEPTH (f	eet bgl)		COLOR AN	ID TYPE OF MATERIAL EN	JCOI INTERED -		WATER	ESTIMATED
			THICKNESS		ER-BEARING CAVITIES OF		s	WATER BEARING?	YIELD FOR WATER-
	FROM	то	(feet)	(attach sup	oplemental sheets to fully de	scribe all units)		(YES/NO)	BEARING ZONES (gpm)
	0	5	5	Caliche, 1	poor- moderate consolidation,	Off white-tan		Y ✓N	
	5	10	5	Sand, fine grained	l, poorly graded, with caliche	gravel, Reddish Brow	n	Y ✓N	
	10	25	15	Clayey San	d, fine grained, poorly graded		Y ✓N		
	25	30	5	Silty Sand, fi	ne grained, poorly graded, Re		Y ✓N		
	30	45	15	Gravelly Silt	y, some gypsum, graded, Re	ddish Brown , Dry		Y ✓N	
13	45	60	15	Siltstor	ne, poorly cemented, Reddish	Brown, Dry		Y ✓N	
OF WELL	60	105	45	Claystone, Low plastic	ity,cohesive, some gypsum,	Reddish Brown-Dark	, moist	Y ✓N	
OF								Y N	
HYDROGEOLOGIC LOG								Y N	
C								Y N	
01								Y N	
GEC								Y N	
8								Y N	
								Y N	
4								Y N	
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	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:		TOTA	AL ESTIMATED	
	PUMI	P []A	IR LIFT	BAILER 01	THER - SPECIFY:		WEL	L YIELD (gpm):	0.00
			DEGLE # # # # # # # # # # # # # # # # # # #	LL GULL A GODUL OF DATE	DA GOLL BOTTON DIMBIO	INTI ENGENIC DI		VO DVOGVA DOE A	TTUOD.
Z	WELL TES				TA COLLECTED DURING V HOWING DISCHARGE ANI				
/ISION	MISCELLA	NEOUS INE	OPMATION:						
ERV	MISCELLA	142003 1141	CRIMATION. To	emporary well materia	als removed and the soil be	oring backfilled using	ng drill et beloe	l cuttings from tot	al depth to ten
SUP				ogs adapted from WS		omps from ton for	0010	w ground surrace	to surrice.
RIG									
TEST; RIG SUPERV									
S. T.		` '		` '	VIDED ONSITE SUPERVIS	SION OF WELL CON	STRUC	CTION OTHER TH	AN LICENSEE:
	Shane Eldric	dge, Carme	lo Trevino, Car	neron Pruitt					
	THE UNDE	RSIGNED H	IEREBY CERTII	FIES THAT, TO THE E	BEST OF HIS OR HER KNO	WLEDGE AND BEL	JEF, T	HE FOREGOING I	S A TRUE AND
JRE					ID THAT HE OR SHE WILI PLETION OF WELL DRILL		RECOR	ED WITH THE STA	TE ENGINEER
TA	THIS THE I	zidwii iio	LDLIK WITHIN	O DATE IN TEN COM	d DETION OF WELL DIGE.				
6. SIGNATURE	Jack A	tkins		Ja	ckie D. Atkins			08/16/2021	
ي و			IDE OF DOIL I	D / BDINT CICNEE	NAME	_		DATE	
		BIONAI	UKE OF DRILLI	ER / PRINT SIGNEE	IAVIAE			DATE	
FOF	OSE INTER	NAL USE				WR-20 WE	LL RE	CORD & LOG (Ver	sion 06/30/2017)
-	E NO.	-45	6)	1. 1. 00	POD NO. ()OD	TRN NO.	<b>30</b>	1043	
LO	CATION $I$	<b>4</b> 5-	29E.2	4455		WELL TAG ID NO.			PAGE 2 OF 2



### PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	Engineer Well Number:			
	owner: XTO ENERGY (K		Phone No.:	432.682.8873
Maili	ng address: 6401 Holiday	Hill Dr.		
City:	Midland	State:	Texas	Zip code: 79707
II. V	VELL PLUGGING INFO	DRMATION:		
1)	Name of well drilling	company that plugged well: Jackie	D. Atkins ( Atkins Engine	ering Associates Inc.)
2)	New Mexico Well Dri	ller License No.: 1249	E	xpiration Date: 04/30/23
3)		es were supervised by the following veron Pruitt, Carmelo Trevino	vell driller(s)/rig supervi	sor(s):
4)	Date well plugging be	gan: 07/27/2024 (12/202) D	ate well plugging conclu	ded: 07/27/2021 8 12 202
5)	GPS Well Location:	Latitude: 32 deg, Longitude: 103 deg,		.17 sec .83 sec, WGS 84
6)	Depth of well confirm by the following mann		ft below ground le	vel (bgl),
7)	Static water level mea	sured at initiation of plugging:	/a ft bgl	
8)	Date well plugging pla	nn of operations was approved by the	State Engineer: 07/20/	2021
9)	Were all plugging acti differences between th	vities consistent with an approved plue approved plugging plan and the we	ngging plan? Yes Il as it was plugged (atta	If not, please describe ch additional pages as needed):

Version: September 8, 2009

Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

### For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement  Method (tremie pipe, other)	Comments  ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 16 gallons	16 gallons	Augers	
_	401.4051				
-	10'-105' Drill Cuttings	Approx. 175 gallons	175 gallons	Boring	
_					
*					
4° .					
_					
		MULTIPLY cubic feet x 7.4 cubic yards x 201.9	BY AND OBTAIN   4805 = gallons 97 = gallons		

#### III. SIGNATURE:

I, Jackie D. Atkins , say that I am familiar with the rules	of the Office of the State
Engineer pertaining to the plugging of wells and that each and all of the statements in this Plug	ging Record and attachments
are true to the best of my knowledge and belief.	
Jack Atkins	08/16/2021

Signature of Well Driller

Version: September 8, 2009

Date

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**APPENDIX B** 

Photographic Log

### **ENSOLUM**

#### **Photographic Log**

XTO Energy, Inc. Ross Draw 25 #31 Battery nAPP2504152469







Photograph: 1 Date: 3/17/2025

Description: Liner inspection activities

View: North

Photograph: 2 Date: 3/21/2025

Description: Delineation Sampling

View: East







Photograph: 3 Date: 4/3/2025

Description: Excavation activities

View: North

Photograph: 4 Date: 4/25/2025

Description: Excavation activities

View: Northeast



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



March 28, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROSS DRAW 25 #31 BATTERY (581)

Enclosed are the results of analyses for samples received by the laboratory on 03/24/25 12:15.

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. Keene

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, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/24/2025 Reported: 03/28/2025

ROSS DRAW 25 #31 BATTERY ( 581 )

Project Name: ROSS DRAW
Project Number: 03C1558581

Project Location: XTO 32.019243-103.94169

Sampling Date: 03/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SS 01 0.5' (H251700-01)

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	03/25/2025	ND	1.92	95.9	2.00	4.60	
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/25/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	188	93.8	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	65.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	61.2	% 40.6-15	3						

#### Cardinal Laboratories \*=Accredited Analyte

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

Celeg & Freene



#### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/24/2025 Reported: 03/28/2025

ROSS DRAW 25 #31 BATTERY (581)

Project Number: 03C1558581

Project Location: XTO 32.019243-103.94169 Sampling Date: 03/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: SS 02 0.5' (H251700-02)

Project Name:

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	03/25/2025	ND	1.92	95.9	2.00	4.60	
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738	
Ethylbenzene*	< 0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/25/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	188	93.8	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	65.2	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	60.2	% 40.6-15	3						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/24/2025 Reported: 03/28/2025

ROSS DRAW 25 #31 BATTERY ( 581 )

Project Number: 03C1558581

Project Location: XTO 32.019243-103.94169

Sampling Date: 03/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SS 03 0.5' (H251700-03)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.92	95.9	2.00	4.60	
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	Chloride, SM4500Cl-B mg/kg An								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2025	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	188	93.8	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	83.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.3	% 40.6-15	3						

Applyzod By: 14

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Celey D. Keine



#### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/24/2025 Reported: 03/28/2025

ROSS DRAW 25 #31 BATTERY (581)

Project Name: Project Number: 03C1558581

Project Location: XTO 32.019243-103.94169 Sampling Date: 03/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

#### Sample ID: SS 04 0.5' (H251700-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2025	ND	1.92	95.9	2.00	4.60	
Toluene*	<0.050	0.050	03/25/2025	ND	2.00	100	2.00	0.738	
Ethylbenzene*	<0.050	0.050	03/25/2025	ND	1.98	99.0	2.00	3.51	
Total Xylenes*	<0.150	0.150	03/25/2025	ND	6.13	102	6.00	1.89	
Total BTEX	<0.300	0.300	03/25/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	'kg	Analyze	d By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/25/2025	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	188	93.8	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					
Surrogate: 1-Chlorooctane	74.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	68.7	% 40.6-15	3						

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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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Page 7 of



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FA	X (575) 393-247	76						RII	II	. TO					Al	VALY	/SIS	REC	UES	<u> </u>	
Company Name: E	Ensolum, LLC						P	0. #:	DIL													
Project Manager:	Tracy Hillard								X	CTC	) Fnergy.	Inc		- 1								
ddress: 601 N M	arienfeld Street, Suit	e 400					Company: XTO Energy, Inc					1		- 1								
City: Midland		State: TX	Zip: 797	701				Attn: Colton Brown Address: 3104 E Greene St				- 1							- 1	- 1		
Phone #: 575-93	37-3906	Fax #:					_					, 01		- 1	- 1			1				
Project #: 03C	1558581	<b>Project Owner</b>	: XTO	Ener	rgy				Carlst					1	- 1	- 1	- 1				- 1	
Project Name: R	oss Draw 25 #31	Battery (581)								21	ip: 88220			- 1							- 1	
Project Location	: 32.019243, -1039	94169					_	hone	#:									- 1		- 1		- 1
Sampler Name: [				_		TDIV	_	ax #:	SERV	/T	SAMPL	ING				-	- 1	- 1			- 1	- 1
FOR LAB USE ONLY			.		MA	TRIX	T	T N	OLIV	t	/					- 1	- 1	.			- 1	- 1
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER	WASTEWATER	JIC JIC	SLUDGE	ACID/BASE:	ICE/COOL	01000	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500							
H251700	-	<i>i</i> 5	41	10		/	0)	<b>*</b>	V		3.4.8	1444	~	v	Va				_			
(	5501	,5	4						V	1	3-21-25	1357	~	V	1							
2	5502 5503	.5	Li I		,	/			1	_	3-21-25			V	1	-						
3	5564	15	9	1				$\perp$	~	4	371-25	1515	1	1	1							
7	7367							$\perp$	++	-			+	+	1							
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			$\perp$	$\perp$		_	_	+	++	$\dashv$				1							_	
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			$\perp$	$\perp$		+	+	+	++	Н												
		d client's exclusive remedy			h after t	and in	contract	or tort, st	nall be limi	nited t	to the amount pa	id by the client	for the	cable	- division							

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within 30 days after completion of the applicable emayses. An identis including tribe for incignitive and any other value minutes of the op-

dilatyses. Fill claims	equental damages, including willow immediate	to the in based upon any of the above stated re-	asons of outer most	Add'l Phone #:
service. In no event shall Cardinal be liable for incidental or cons	e of services hereunder by Cardinal, regardles	ess of whether such claim is based upon any or the sale		
affiliates or successors arising out of or related to the performance	Date: - / Receive	ad Rv.	- u mailed Please provid	le Email address.
Relinquished By:	Date: 24-25 Receive		BBelill@ensolum.com, TMorrissey@er	and the com THillard@ensolum.com
Kellildalouer = )		Marial A. I Will that	BRelill@ensolum.com, TMorrissey@er	Solum.com, Trimara@one
$\sim$ $\sim$	Time:	9/11/1/9/1/9 11 N PV BV B OF DX	DD01111@ 5111	
Tera The	Time: 315	yeurene water	REMARKS:	Cost Center
VIVON 1100		ed By:		
Relinquished By:	Date: Receive	J	Incident #	
Relinquisited by:			A D D O F O 44 F O 46 O	1056301001
1	Time:		MAPP 2304 132 400	Bacteria (only) Sample Condition
1			Turnaround Time: Standard	
	- 00 000	Sample Condition CHECKED BY:	Rush	
Delivered By: (Circle One)	Doserved Temp. °C 38		H140 0	☐ Yes ☐ Yes
Delivered by. (On the		Cool Intact (Initials)	Thermometer ID #113 #177	No No Corrected Temp. °C
	Corrected Temp. °C 4,1	Yes Tes	C Factor -0.5C TOI OF	
Sampler - UPS - Bus - Other:	Corrected Lemp.	No No	rese to coley keene@cardinallabs	4/25
- Carrier Carr			was to colov keene@cardinallabs	Spirit.Com

<sup>†</sup> Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsym.com



April 10, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROSS DRAW 25 #31 BATTERY (581)

Enclosed are the results of analyses for samples received by the laboratory on 04/04/25 8:48.

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, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 04/04/2025 Sampling Date: 04/03/2025

Reported: 04/10/2025 Sampling Type: Soil

Project Name: ROSS DRAW 25 #31 BATTERY ( 581 ) Sampling Condition: Cool & Intact
Project Number: 03C1558581 ( SPILLS ) Sample Received By: Alyssa Parras

Applyand By 14

Project Location: XTO 32.019446-103.941887

#### Sample ID: FS 01 2' (H252010-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene* <0.050 0.050		0.050	04/07/2025	ND	2.02	101	2.00	16.2	
Toluene*	<0.050	0.050	04/07/2025	ND	2.07	103	2.00	15.2	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.01	100	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	5.92	98.6	6.00	14.9	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 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	480	16.0	04/07/2025	ND	400	100	400	3.92	
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	04/07/2025	ND	204	102	200	1.64	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	206	103	200	3.79	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					
Surrogate: 1-Chlorooctane	91.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	90.0	% 40.6-15	3						

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Celey D. Keene



#### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 04/04/2025 Sampling Date: 04/03/2025

Reported: 04/10/2025 Sampling Type: Soil

Project Name: ROSS DRAW 25 #31 BATTERY ( 581 ) Sampling Condition: Cool & Intact
Project Number: 03C1558581 ( SPILLS ) Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.019446-103.941887

#### Sample ID: SW 01 0.2' (H252010-02)

RTFY 8021R

BIEX 8021B	mg,	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	ne* <0.050 0.050		04/07/2025	ND	2.02	101	2.00	16.2	
Toluene*	<0.050	0.050	04/07/2025	ND	2.07	103	2.00	15.2	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.01	100	2.00	14.4	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	5.92	98.6	6.00	14.9	
Total BTEX	<0.300	0.300	04/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/07/2025	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2025	ND	201	100	200	1.80	
DRO >C10-C28*	<10.0	10.0	04/05/2025	ND	213	107	200	0.539	
EXT DRO >C28-C36	<10.0	10.0	04/05/2025	ND					
Surrogate: 1-Chlorooctane	81.6	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	81.0	% 40.6-15	3						

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Celey & Keene



#### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

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Celeg D. Freene

Received by OCD: 5/12/2025 3:06:29 PM



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Ensolum, LLC											BII	LL TO					-	ANAL	YSIS	RE	QUE	ST		
Project Manager	Tracy Hillard								P.(	0. #	:														
Address: 601 N	Marienfeld Street, Su	ite 400							Co	mp	any	: X	TO Energy	y, Inc											
City: Midland		State: TX	Zip	: 79	701				Attn: Colton Brown																Н
Phone #: 575-93	37-3906	Fax #:							Ad	ldre	ss:	31	04 E Gree	ne St											П
Project #: 03C1	558581	Project Owner	r: )	0,			City: Carlsbad																П		
Project Name: R	roject Name: Ross Ranch 25 31 Federal Battery - SPILLS				LS	State: NM Zip: 88220																П			
Project Location: 32.019446, -103.941887				Phone #:																					
Sampler Name:	Alex Ferrell								Fa	x #:	-														П
FOR LAB USE ONLY				Г		N	MATR	IX	_	PR	ESE	RV.	SAME	PLING											
Lab I.D	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500								
)	F501	2	C	1			X				X		4/3/25	1358	X	X	X								
2	Swol	0-2	C	1			X				X		4/3/25	1402	X	X	X								Ш
				L						L															$\vdash$
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			$\vdash$	$\vdash$		+	+	+	+	$\vdash$		$\vdash$													$\forall$
						+	+	-	-																$\forall$
																									4

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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.

affiliates or successors arising out of or related to the perform	ance of services hereunder by Ca	ardinal, regardless of whether such claim is based upon any of the above stated r	easons or otherwise.
Relinguished By:	Date:	Received By:	Verbal Result: □ Yes □ No   Add'l Phone #:
andn	72.C	Eurn	All Results are emailed. Please provide Email address:  BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS: Incident Number: nAPP2504152469
Sin	Time:	Opallo	Cost Center: GFCM: 48605000
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C.	Cool Intact (Initials)  Yes Yes  No No	Thermometer ID #148 US Correction Fector #0.5°C COMMINISTRIC CONTROLLED NO NO CORRECTED NO NO NO CORRECTED NO NO CORRECTED NO NO NO NO CORRECTED NO NO NO NO CORRECTED NO



April 29, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROSS DRAW 25-31 FED BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 04/28/25 12:00.

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, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 04/28/2025 Reported: 04/29/2025 Sampling Date: 04/25/2025 Sampling Type:

Soil

Project Name:

ROSS DRAW 25-31 FED BATTERY - SPILI

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

03C1558581

XTO 32.019446, -103.941887

Project Location:

Sample ID: SW 01 A 0-2' (H252529-01)

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	04/28/2025	ND	2.18	109	2.00	1.73	
Toluene*	<0.050	0.050	04/28/2025	ND	2.29	114	2.00	0.447	
Ethylbenzene*	<0.050	0.050	04/28/2025	ND	2.13	106	2.00	0.0866	
Total Xylenes*	<0.150	0.150	04/28/2025	ND	6.37	106	6.00	0.220	
Total BTEX	<0.300	0.300	04/28/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/28/2025	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2025	ND	194	97.2	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/28/2025	ND	206	103	200	0.783	
EXT DRO >C28-C36	<10.0	10.0	04/28/2025	ND					
Surrogate: 1-Chlorooctane	77.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.4	% 40.6-15	3						

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### **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  $6^{\circ}\text{C}$ 

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

CARDINAL Laboratories

	e: Ensolum, LLC										В	IL	L TO					-	ΔΝΔ	LYSI	S DE	OUE	CT.			_
	er: Tracy Hillard								P.	0. #.	:				T	T	T	T		T	J KE	LQUE	31			_
	Marienfeld Street, S	uite 400							Co	mpa	any:	ХТ	O Energ	ay, Inc	1	1	1									
City: Midland		State: TX	Zi	p: 79	9701	1							Brown	,,,,,,	1	-										
Phone #: 575	-937-3906	Fax #:							Ad	ldres	ss: 3	3104	4 E Gree	ene St	1		l									
	3C1558581	Project Owne	er:	XTC	) En	ergy					Carls			one or	1		1									
Project Name:	Ross Draw 25 31 Fe	d Battery - Spills								,			ip: 882	20	1		1									
Project Location	n: 32.019446, -103.9	941887								one		41	ip. 002	20	1											
Sampler Name:	Jesse Dorman									x #:	π.				1											
FOR LAB USE ONLY			Т	Т		М	ATR	X	_	_	SERV	4	SAMI	PLING	1											
Lab I.D #253539	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	4	DATE (25/25	TIME	TPH 8015	BTEX 8021	Chloride 4500									
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LEASE NOTE: Liability and	Damages. Cardinal's liability and clie those for negligence and any other of																		$\rightarrow$	-	+	$\rightarrow$	-	-	-	4

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 affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, recardless of whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, recardless of whather such claim is beguing the beguing the performance of services hereunder by Cardinal, recardless of whather such claim is beguing the beguing the performance of services hereunder by Cardinal, recardless of whather such claim is beguing the performance of services hereunder by Cardinal, recardless of whather such claim is beguing the performance of services hereunder by Cardinal, recardless of whather such claim is beguing the performance of services hereunder by Cardinal recardless of whather such claim is beguing the performance of services hereunder by Cardinal recardless of whather such claim is beguing the performance of services hereunder by Cardinal recardless of whather such claim is beguing the performance of services hereunder by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather such claims to be performed by Cardinal recardless of whather su

Relinquished By:	too of services riereurider by Cardinal, regardle	dless of whether such claim is based upon any of the above stated re	overil, its substitutines,
Tomquionica by.	Date: Receive	eupy.	Verbal Result:   Yes   No Add'l Phone #
	Time: 200	1/0/1/0/1/6 1/6 1/1/20/2//// 20/2/	All Results are emailed. Please provide Email address:  BBelill@ensolum.com, TMorrissey@ensolum.com,  JReich@ensolum.com
Relinquished By:	Date: Receive	agreed willing	Hillard@ensolum.com, KThomason@ensolum.com Jdorman@ensolum.com
	Time:		Incident Number: nAPP2504152469 Cost Center;1056301001
Delivered By: (Circle One)	bserved Temp. °C	Samula Constitu	GFCM: 48605000
Sampler - UPS - Bus - Other:	orrected Temp. °C 0.7	Yes Yes (Initials)	Turnaround Time: Standard ☐ Bacteria (only) Sample Condition  Rush ☐ Cool Intact Observed Temp. °C  Thermometer ID 1113
FORM-006 R 3.2 10/07/21	+ Condings	110	Correction Factor Of Coff Or The Yes No Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinal/absnm.com

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Phone: (505) 629-6116
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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 461141

#### **QUESTIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	461141
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504152469
Incident Name	NAPP2504152469 ROSS DRAW 25 #31 BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2126042930] Ross Draw 25 #31 Battery

Location of Release Source							
Please answer all the questions in this group.							
Site Name	Ross Draw 25 #31 Battery						
Date Release Discovered	02/10/2025						
Surface Owner	Federal						

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error   Pump   Produced Water   Released: 7 BBL   Recovered: 7 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Spill into containment bin beneath SWD pump. 7 bbls spilled into containment. 0.1 bbls spilled onto pad. 7 bbl recovered from the containment bin

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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 461141

QUESTIONS (continued)

Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	461141
	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.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o led 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 releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 02/11/2025

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

QUESTIONS, Page 3

Action 461141

#### **QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	461141
	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 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Zero feet, overlying, or within area	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between 1 and 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 Cl B)	480
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	03/17/2025
On what date will (or did) the final sampling or liner inspection occur	04/25/2025
On what date will (or was) the remediation complete(d)	04/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	184
What is the estimated volume (in cubic yards) that will be reclaimed	13
What is the estimated surface area (in square feet) that will be remediated	184
What is the estimated volume (in cubic yards) that will be remediated	13
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 461141

**QUESTIONS** (continued)

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	461141
ı		Action Type:
ı		[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.)		
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 M4A0 1 " " 1 1 1 1 " " 1 1 1 1 1 1 1 1 1 1	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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: Robert Woodall
Title: Environmental Analyst
Email: robert.d.woodall@exxonmobil.com

Date: 05/12/2025

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

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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 461141

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	461141
	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 461141

QUESTIONS (continued)

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0	Operator:	OGRID:
	XTO ENERGY, INC	5380
	6401 Holiday Hill Road	Action Number:
	Midland, TX 79707	461141
		Action Type:
		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	452840
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation 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	184	
What was the total volume (cubic yards) remediated	13	
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	184	
What was the total volume (in cubic yards) reclaimed	13	
Summarize any additional remediation activities not included by answers (above)	Liner integrity inspection activities were conducted following a release of produced water within a lined containment at the Site. Following removal of all fluid and debris, a liner integrity inspection was con-ducted by Ensolum personnel on March 17, 2025. Upon inspection, no rips, tears, holes, or damage were observed, and the liner was determined to be operating as designed. Excavation activities were conducted to remove impacted soil outside of the lined containment. Based on initial response efforts, excavation activities, and laboratory analytical results indicated no impacted soil remains, XTO re-spectfully requests closure for Incident Number nAPP2504152469.	

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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 05/12/2025
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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 7

Action 461141

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	461141
	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 461141

#### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	461141
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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	None	7/2/2025