

August 11, 2025

### **New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

Big Sinks 02-24-30 State Battery Incident Number nAPP2515347796 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 conducted at the Big Sinks 02-24-30 State Battery (Site) following a release of produced water within a lined containment. Based on the liner integrity inspection activities, XTO is submitting this *Closure Request*, describing the inspection results and requesting closure for Incident Number nAPP2515347796.

### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 02, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.248405°, -103.859631°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO) under lease number E052290011.

On May 15, 2025, internal corrosion of a produced water tank resulted in the release of approximately 20 barrels (bbls) of produced water into a lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluids and all fluids were recovered. The lined containment was power washed to remove any residual fluids. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) and submitted an Initial C-141 Application (C-141) on June 2, 2025. The release was assigned Incident Number nAPP2515347796.

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below 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 the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321526103520101, located approximately 0.80 miles northwest of the Site. The most recently reported depth to groundwater measurement in the well was collected on September 25, 1972, and documented as 441.6 feet bgs. The

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com XTO Energy, Inc Closure Request Big Sinks 02-24-30 State Battery

total depth of the well is 567 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash located approximately 6,379 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by potentially unstable geology (low potential karst designation area).

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

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

### **LINER INTEGRITY INSPECTION ACTIVITIES**

A 48-hour advanced notice of the liner inspection was submitted to the NMOCD on June 16, 2025. The lined containment was cleaned of all debris and power washed and a liner integrity inspection was conducted by Ensolum personnel on June 23, 2025. The lined containment was inspected, and it was determined that the liner was operating as designed. Upon inspection, no rips, tears, holes, or damage was observed. The liner was determined to be operating sufficiently, and all released fluids were recovered. Photographic documentation of the inspection is included in Appendix B.

### **CLOSURE REQUEST**

Liner integrity inspection activities were completed following the May 15, 2025, release of produced water within a lined containment at the Site. A liner integrity inspection was conducted on behalf of XTO, by Ensolum personnel on June 23, 2025. The results of the inspection indicated that the liner was operating as designed and the release was contained laterally by the lined containment walls. Based on initial response efforts and the liner operating as designed, XTO respectfully requests closure for Incident Number nAPP2515347796.

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 Benjamin J. Belill Senior Geologist



XTO Energy, Inc Closure Request Big Sinks 02-24-30 State Battery

Cc: Colton Brown, XTO

Kaylan Dirkx, XTO

BLM

# Appendices:

Figure 1 Site Receptor Map

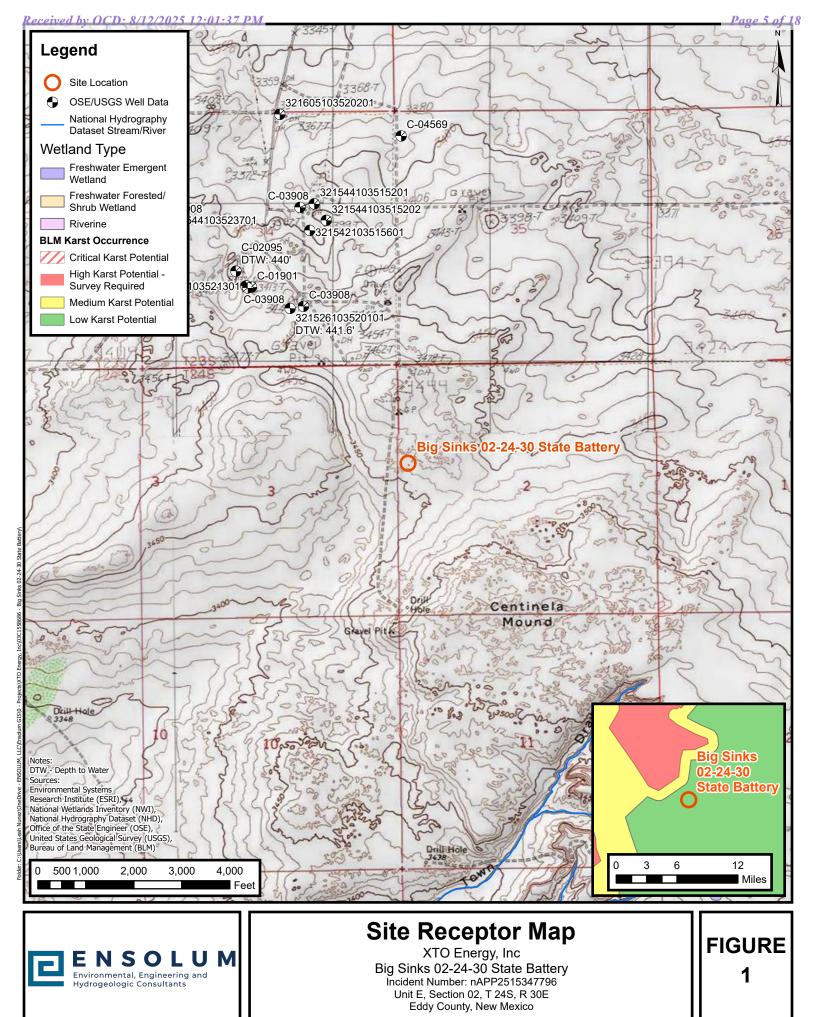
Figure 2 Site Map

Appendix A Well Record and Log Appendix B Photographic Log





**FIGURES** 



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# Site Map

XTO Energy, Inc Big Sinks 02-24-30 State Battery Incident Number: nAPP2515347796 Unit E, Section 02, T 24S, R 30E Eddy County, New Mexico FIGURE 2



**APPENDIX A** 

Referenced Well Records

**♥** GO



**USGS** Water Resources

National Water Information System: Web Interface

Mational Water Information System. Web Interface

Contact USGS Search USGS

Geographic Area:

**United States** 

Data Category:

Groundwater

**USGS Home** 

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• Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

# Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 321526103520101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 321526103520101 23S.30E.34.32400

Eddy County, New Mexico Latitude 32°15'26", Longitude 103°52'01" NAD27 Land-surface elevation 3,446 feet above NAVD88 The depth of the well is 567 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

## **Output formats**

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status	
1960-09-22		D	62610		3001.96	NGVD29	1	Z				Α
1960-09-22		D	62611		3003.67	NAVD88	1	Z				Α
1960-09-22		D	72019	442.33			1	Z				Α
1962-05-10		D	62610		3004.21	NGVD29	1	Z				Α
1962-05-10		D	62611		3005.92	NAVD88	1	Z				Α
1962-05-10		D	72019	440.08			1	Z				Α
1962-07-31		D	62610		3004.15	NGVD29	1	Z				Α
1962-07-31		D	62611		3005.86	NAVD88	1	Z				Α
1962-07-31		D	72019	440.14			1	Z				Α
1962-08-08		D	62610		3004.24	NGVD29	1	Z				Α
1962-08-08		D	62611		3005.95	NAVD88	1	Z				Α
1962-08-08		D	72019	440.05			1					Α
1963-03-19		D	62610		3005.93	NGVD29	1	_				Α
1963-03-19		D	62611		3007.64	NAVD88	1					Α
1963-03-19		D	72019	438.36			1					Α
1963-06-11		D	62610		3004.63	NGVD29	1					Α
1963-06-11		D	62611		3006.34	NAVD88	1					Α
1963-06-11		D	72019	439.66			1					A
1972-09-25		D	62610		3002.69	NGVD29	1	Z				A
1972-09-25		D	62611	444 70	3004.40	NAVD88	1					A
1972-09-25		D	72019	441.60			1	Z				Α

# Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.

Received by OCD: 8/12/2025 12:01:37 PM

Section	Code	Description
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments Help Data Tips Explanation of terms
Subscribe for system changes

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2025-06-27 13:18:58 EDT

0.41 0.33 nadww01





**APPENDIX B** 

Photographic Log



### **Photographic Log**

XTO Energy, Inc Big Sinks 02-24-30 State Battery nAPP2515347796





Photograph: 1 Date: 6/23/2025

Description: Liner inspection activites; well sign

View: Direct

Photograph: 2 Date: 6/23/2025

Description: Liner inspection activities

View: Southwest





Photograph: 3 Date: 6/23/2025

Description: Liner inspection activities

View: Southwest

Photograph: 4 Date: 6/23/2025

Description: Liner inspection activities

View: East



# **Photographic Log**

XTO Energy, Inc Big Sinks 02-24-30 State Battery nAPP2515347796





Photograph: 5 Date: 6/23/2025

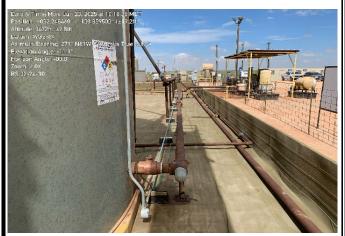
Description: Liner inspection activites; well sign

View: East

Photograph: 6 Date: 6/23/2025

Description: Liner inspection activities

View: East





Photograph: 7 Date: 6/23/2025

Description: Liner inspection activities

View: West

Photograph: 8 Date: 6/23/2025

Description: Liner inspection activities

View: Southeast

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 494843

### **QUESTIONS**

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	494843
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2515347796	
Incident Name	NAPP2515347796 BIG SINKS 02-24-30 STATE BATTERY @ E-02-24S-30E	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	

Location of Release Source				
Please answer all the questions in this group.				
Site Name	Big Sinks 02-24-30 State Battery			
Date Release Discovered	05/15/2025			
Surface Owner	State			

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

Nature and Volume of Release				
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Cause: Corrosion   Tank (Any)   Produced Water   Released: 20 BBL   Recovered: 20 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)	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 494843

**QUESTIONS** (continued)

Q0=0	Orto (continuou)		
Operator: XTO ENERGY, INC	OGRID: 5380		
6401 Holiday Hill Road	Action Number:		
Midland, TX 79707	494843		
	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 of ed 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 a	knowledge and understand that pursuant to OCD rules and regulations all operators are required uses 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 to does not relieve the operator of responsibility for compliance with any other federal, state, or		
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/12/2025		

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 494843

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	494843
	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	U.S. Geological Survey
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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 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 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	Yes	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	05/15/2025	
On what date will (or did) the final sampling or liner inspection occur	06/23/2025	
On what date will (or was) the remediation complete(d)	06/23/2025	
What is the estimated surface area (in square feet) that will be remediated	3418	
What is the estimated volume (in cubic yards) that will be remediated	0	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in	accordance with the physical realities encountered during remediation. If the responsible party has any need to	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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General Information Phone: (505) 629-6116

Operator:

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

XTO ENERGY, INC

Midland, TX 79707

6401 Holiday Hill Road

# 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 494843

QUESTIONS (continued)

OGRID:

Action Number:

5380

494843

	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 t	he 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 remedia	te / reduce contaminants:
(Select all answers below that apply.)	
Is (or was) there affected material present needing to be removed	Yes
Is (or was) there a power wash of the lined containment area (to be) performed	Yes
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No impacted soil identified
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for relithe OCD does not relieve the operator of liability should their operations have failed to	whowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by a adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/12/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in ac significantly deviate from the remediation plan proposed, then it should consult with the division to	coordance with the physical realities encountered during remediation. If the responsible party has any need to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

# 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 494843

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	494843
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	475566
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	06/23/2025
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	3418

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	Yes	
What was the total surface area (in square feet) remediated	3418	
What was the total volume (cubic yards) remediated	0	
Summarize any additional remediation activities not included by answers (above)	Liner integrity inspection activities were completed following a May 15, 2025, release of produced water within a lined containment at the Site. A liner integrity inspection was conducted on behalf of XTO, by Ensolum personnel on June 23, 2025. The results of the inspection indicated that the liner was operating as designed and the release was contained laterally by the lined containment walls. Based on initial response efforts and the liner operating as designed, XTO respectfully requests closure for Incident Number nAPP2515347796.	

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 contamition 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: Colton Brown
	Title: Environmental Advisor
	Email: colton.s.brown@exxonmobil.com
	Date: 08/12/2025

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 494843

#### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	494843
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	$^{\prime}$	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #nAPP2515347796 Big Sinks 02-24-30 State Battery, thank you. This Remediation Closure Report is approved.	9/15/2025