

XTO Permian Operating, LLC An ExxonMobil Subsidiary

Victoria Venegas ENMRD–Oil Conservation Division Environmental Bureau 506 W. Texas Ave. Artesia, NM 88210 Kristen Houston Regulatory Analyst XTO Permian Operating, LLC 6401 Holiday Hill Road, Bldg 5 Midland, TX 79707

May 21, 2025

Re: Administrative Order 2RF-155 Shanghai Recycling Facility Containment Upgrade Facility ID (fvv2103456039)

Victoria,

XTO Permian Operating, LLC (OGRID: 373075) respectfully requests permission to perform upgrades to the Shanghai Recycling Facility Containment (frac pond) Permit 2RF-155 Recycling Facility ID (fvv2103456039).

The first scope of the work to be done on the Shanghai frac pond is as follows: installation of mechanical and electrical infrastructure (i.e., electric submersible pumps, transformers, switchboards, etc.) to support upcoming developments and eliminate the use of temporary diesel pumps. The following equipment will be added as part of the upgrade:

Quantity	Description	Temporary	Permanent
2	2.6MVA Transformer		Х
2	3000A Switchboard		Х
1	Programmable Logic Controller (PLC)		Х
1	Remote I/O Panel		Х
4	1200A Generator Tap Boxes		Х

During full operation when modular electric submersible pumps are installed on site, the following additional equipment will be installed:

Quantity (up to)	Description	Temporary	Permanent
12	~250HP Electric Submersible Pump	Х	
12	~300HP Variable Frequency Drive (VFD)	Х	
4	1200A or 2000A Switchboards	Х	

The second scope of work to be done on the Shanghai frac pond is as follows: installation of mechanical and electrical infrastructure (i.e., automated leak detection and enhanced

pond level measurement) to support operations and eliminate the use of manual leak detection routines.

Quantity	Description	Temporary	Permanent
2	Enhanced Pond Level Sensors	10 G-	Х
2	Automated Leak Detection Systems		Х

Construction duration will be 1-Jun-2025–30-Sep-2025 upon your approval, if all goes according to plan. The pond will continue to operate during the construction duration with minimal downtime for installation of pumping infrastructure.

A preliminary, updated engineered drawing of the frac pond layout can be viewed in drawing "DN-CCSFP-FP-PF-MP-LAY-0001-001_0.pdf" (attached).

A process flow diagram can be viewed in "Delaware Frac Pond Process Flow.pdf" (attached).

The outlined changes will change the Operations and Maintenance Plan (Appendix B from ExxonMobil's original C-147 submission) as shown in Appendix A, below.

The outlined changes will not affect the Closure Plan.

If you have any questions or need any additional information, please feel free to contact me at (432) 894-1588.

Sincerely,

Kristen Houston

Kristen Houston Regulatory Analyst

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

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F	orm	C	-147
Revised	April	3,	2017

Recycling Facility and/or Recycling Containment			
Type of Facility: Image: Recycling Facility Image: Recycling Containment* Type of action: Image: Permit Image: Recycling Containment*			
Modification Extension			
Closure Other (explain)			
* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.			
Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.			
Derator:XTO Permian Operating, LLC(For multiple operators attach page with information) OGRID #:373075			
Address: _6401 Holiday Hill Road, Bldg 5, Midland, TX 79707			
Facility or well name (include API# if associated with a well): _Shanghai			
OCD Permit Number:(For new facilities the permit number will be assigned by the district office)			
U/L or Qtr/Qtr Section22 Township _25 South _ Range _29 East County: _Eddy County			
Surface Owner: 🛛 Federal 🗌 State 🗌 Private 🛄 Tribal Trust or Indian Allotment			
Recycling Containment: □ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year) Center of Recycling Containment (if applicable): Latitude _32.117775° Longitude103.974687 NAD83 □ For multiple or additional recycling containments, attach design and location information of each containment □ For multiple or additional recycling containments, attach design and location information of each containment □ Lined □ Liner type: Thickness60mil □ LLDPE □ PVC □ Other40 mil HDPE (secondary liner) □ String-Reinforced Liner Seams: □ Welded □ Factory □ OtherField Volume: _1,000,000_bbl each Dimensions: L_1500 ft x W_1200 ft x D_16 ft □ Recycling Containment Closure Completion Date:			

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Bonding:

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Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or

operated by the owners of the containment.)

Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$______ (work on these facilities cannot commence until bonding

amounts are approved)

Attach closure cost estimate and documentation on how the closure cost was calculated.

Fencing:

5.

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify_Eight (8) feet high game fence with three (3) strands of barbed wire on top_

Signs:

6.

7.

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🛛 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances:

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

Check the below box only if a variance is requested:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

If a Variance is requested, it must be approved prior to implementation.

Siting Criteria for Recycling Containment

Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.

General siting		
Ground water is less than 50 feet below the bottom of the Recycling Containment. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; written approval obtained from the municipality		
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division 	🗌 Yes 🛛 No	
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map 	🗌 Yes 🛛 No	
Within a 100-year floodplain. FEMA map	🗌 Yes 🛛 No	
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No	
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; aerial photo; satellite image 	🗌 Yes 🛛 No	
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No	
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	🗌 Yes 🛛 No	

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 Recycling Facility and/or Containment Checklist: Instructions: Each of the following items must be attached to the application. Design Plan - based upon the appropriate requirements. Operating and Maintenance Plan - based upon the appropriate requirement. Closure Plan - based upon the appropriate requirements. Site Specific Groundwater Data - Siting Criteria Compliance Demonstrations – Certify that notice of the C-147 (only) has been sent to the surface ow 	ts.
10. Operator Application Certification: I hereby certify that the information and attachments submitted with this application Name (Print): Signature: e-mail address: Kristen.houston@exxonmobil.com	Title: Regulatory Advisor Date: 6/12/2025 Telephone: (432)894-1588
In. Victoria Venegas OCD Representative Signature: Victoria Venegas Title: Environmental Specialist X OCD Conditions X Additional OCD Conditions on Attachment	Approval Date: 07/01/2025 OCD Permit Number: 2RF-155

Appendix A

Original submission: Appendix B Operating and Maintenance Plan

The integrity of the liner and leak detection system will be monitored in such a manner to prevent contamination of fresh water and protect public health and the environment as described below. The purpose of the recycling containment is to facilitate recycling of treated produced water from nearby oil and gas wells for new well completions. When treated produced water is not needed for well completion activity, produced water will be properly injected at one of XTO's or a third party's authorized SWDs. The recycling containment will not be used for disposal of produced water or other oilfield wastes.

The recycling containment and associated leak detection system will be inspected at least weekly by XTO field operations personnel while it contains any fluid and the results of the inspection will be documented on an inspection checklist. The completed checklists will be retained and made available for review upon request. [Continued].

Revised submission (updates in red underline):

Appendix B Operating and Maintenance Plan

The integrity of the liner and leak detection system will be monitored in such a manner to prevent contamination of fresh water and protect public health and the environment as described below. The purpose of the recycling containment is to facilitate recycling of treated produced water from nearby oil and gas wells for new well completions. When treated produced water is not needed for well completion activity, produced water will be properly injected at one of XTO's or a third party's authorized SWDs. The recycling containment will not be used for disposal of produced water or other oilfield wastes.

The recycling containment and associated leak detection system will be inspected at least weekly by XTO field operations personnel while it contains any fluid and the results of the inspection will be documented on an inspection checklist. The automated leak detection will be run as needed when fluids are detected in between the primary (upper) and secondary (lower) liners. The completed checklists and data will be retained and made available for review upon request. [Continued].





Delaware Frac Pond Process Flow (1 of 2)

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Recycle and brackish water streams continue flow separately through the modular flow control skids. The skids include flow meters to measure pump flow rates, flow control valves to support startup and operations at low flow rates, and pressure transmitters.

Water streams flow through the chemical injection points where a 3rd party injects chemicals for frac support.

At the import/export manifolds, water flows from the facility into the MSO corridor. The streams can be sent separately or blended. Manifolds include flow meters and SDV's to isolate the facility from the corridor. Flow can also be reversed at the manifold to bring water from the corridor into the facility.

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Appendix B

Operating and Maintenance Plan

The recycling containment will be operated in such a manner to contain liquids and solids. The integrity of the liner and leak detection system will be monitored in such a manner to prevent contamination of fresh water and protect public health and the environment as described below. The purpose of the recycling containment is to facilitate recycling of treated produced water from nearby oil and gas wells for new well completions. When treated produced water is not needed for well completion activity, produced water will be properly injected at one of XTO's or a third party's authorized SWDs. The recycling containment will not be used for disposal of produced water or other oilfield wastes.

The recycling containment and associated leak detection system will be inspected at least weekly by XTO field operations personnel while it contains any fluid and the results of the inspection will be documented on an inspection checklist. The completed checklists will be retained and made available for review upon request. These inspections will address, at a minimum, the following:

- Removal of any visible layer of oil from the liquid surface;
- Verification that a minimum of three (3) foot freeboard is maintained;
- If a liner breach is identified above the liquid surface, the liner will be repaired, or liner replacement will be initiated within 48 hours of detection. Alternatively, the NMOCD district office will be contacted within 48 hours to seek and extension for liner repair / replacement;
- If a liner breach is identified below the liquid surface, all liquid above the identified breach will be removed, the NMOCD district office will be notified, and liner repair / replacement shall be initiated within 48 hours of discovery;
- Visual inspection of berm integrity and condition to ensure the prevention of surface water run-on; and
- Determination that an oil absorbent boom is present and in proper condition to contain an unanticipated release.

The containment will be equipped with permanent HDPE stingers (supported by a sacrificial liner) for withdrawal of fluid during operations so that external discharge or suction lines do not penetrate the liner.

Treated produced water deposits into and withdrawals from the recycling containment will be measured and documented to determine when the system has ceased operations (less than 20% of the total fluid capacity is used during each rolling six-month period following the initial withdrawal of produced water.



XTO will submit Form C-148 monthly to NMOCD within 30 days of the end of the calendar month listing: volumes of produced water received; volumes of fresh or brackish water received; and total volumeof water leaving the recycling facility.

Upon cessation of operation, the NMOCD district office will be notified. XTO will submit to NMOCD a completed Form C-148 within 30 days following the end of each calendar month. Each submittal will certify that the recycling containment has not ceased operation based on the 20% threshold described above.



Venegas, Victoria, EMNRD

Venegas, Victoria, EMNRD
Tuesday, July 1, 2025 2:40 PM
Houston, Kristen /C
2RF-155 SHANGHAI FACILITY [fVV2103456039]
2RF-155 SHANGHAI FACILITY [fVV2103456039] 07.01.2025.pdf

2RF-155 SHANGHAI FACILITY [fVV2103456039]

Good afternoon Ms. Houston.

The NMOCD has reviewed the proposed recycling facility updates submitted by [373075] XTO PERMIAN OPERATING LLC on 06/13/2025, for 2RF-155 Shanghai FACILITY [fVV2103456039], Action ID **473916**. The proposed upgrade to be performed on 2RF-155 SHANGHAI FACILITY [fVV2103456039] is as follows:

• Installation of mechanical and electrical infrastructure (i.e., electric submersible pumps, transformers, switchboards, etc.) to support upcoming developments and eliminate the use of temporary diesel pumps. The detailed list of equipment that will be added as part of the upgrade can be found on the application.

The proposed recycling facility updates have been approved with the following conditions of approval:

- 2RF-155 SHANGHAI FACILITY [fVV2103456039] registration expired on May 22, 2024. <u>Please submit the</u> extension request for the 2024-2025 period.
- Water reuse and recycling from 2RF-155 SHANGHAI FACILITY [fVV2103456039] is limited to wells owned and operated by [373075] XTO PERMIAN OPERATING LLC.
- [373075] XTO PERMIAN OPERATING LLC will, operate, maintain, and close 2RF-155 SHANGHAI FACILITY [fVV2103456039] in compliance with 19.15.34 NMAC.
- [373075] XTO PERMIAN OPERATING LLC shall submit monthly reports of recycling and reuse of produced water, drilling fluids, and liquid oil field waste on NMOCD form C-148 through OD Permitting even if there is zero activity.
- [373075] XTO PERMIAN OPERATING LLC must comply with 19.15.29 NMAC Releases in the event of any release of produced water or other oil field wastes at 2RF-155 SHANGHAI FACILITY [fVV2103456039].

Please let me know if you have any further questions. Regards,

Victoria Venegas

Environmental Specialist Advanced EMNRD - Oil Conservation Division 506 W. Texas Ave. Artesia, NM 88210 575.909.0269 | <u>Victoria.Venegas@emnrd.nm.gov</u> 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

CONDITIONS

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Action 473916

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	473916
	Action Type:
	[C-147] Water Recycle Long (C-147L)

CONDITIONS		
Created By	Condition	Condition Date
vvenegas	The proposed upgrade to be performed on 2RF-155 SHANGHAI FACILITY [fVV2103456039] is as follows: • Installation of mechanical and electrical infrastructure (i.e., electric submersible pumps, transformers, switchboards, etc.) to support upcoming developments and eliminate the use of temporary diesel pumps. The detailed list of equipment that will be added as part of the upgrade can be found on the application. The proposed recycling facility upgrades have been approved.	7/1/2025