

3RF-28 NEU  
2207-16B Water  
Recycling Facility  
Primary Liner  
Compromise Repair  
Report/Extension

[372286] ENDURING  
RESOURCES, LLC  
10/27/2022

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-147  
Revised April 3, 2017

## Recycling Facility and/or Recycling Containment

**Type of Facility:** ☒ Recycling Facility ☒ Recycling Containment\*  
**Type of action:** ☐ Permit ☐ Registration  
☐ Modification ☐ Extension  
☐ Closure ☒ Other (explain) LINER REPAIR EXTENSION

\* 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.

1.

Operator: Enduring Resources, LLC (For multiple operators attach page with information) OGRID #: 372286  
Address: 200 Energy Court, Farmington, NM 87401  
Facility or well name (include API# if associated with a well): NEU 2207-16B Water Recycle Facility  
OCD Permit Number: 3RF-28 (For new facilities the permit number will be assigned by the district office)  
U/L or Qtr/Qtr NW/4 NE/4 Section 16 Township 22N Range 7W County: Sandoval  
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☒ **Recycling Facility:**  
Location of recycling facility (if applicable): Latitude 36.144262 Longitude -107.576376 NAD83  
Proposed Use: ☒ Drilling\* ☒ Completion\* ☒ Production\* ☒ Plugging\*  
*\*The re-use of produced water may NOT be used until fresh water zones are cased and cemented*  
☐ Other, *requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.*  
☒ Fluid Storage  
☒ Above ground tanks ☒ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type \_\_\_\_\_  
☐ Activity permitted under 19.15.36 NMAC explain type: \_\_\_\_\_ ☐ Other explain \_\_\_\_\_  
☐ For multiple or additional recycling containments, attach design and location information of each containment  
☐ **Closure Report (required within 60 days of closure completion):** ☐ Recycling Facility Closure Completion Date: \_\_\_\_\_

3.

☒ **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 36.144262 Longitude -107.576376 NAD83  
☐ For multiple or additional recycling containments, attach design and location information of each containment  
☒ Lined ☐ Liner type: Thickness 45 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☒ String-Reinforced  
Liner Seams: ☒ Welded ☐ Factory ☐ Other \_\_\_\_\_ Volume: 309,800 bbl Dimensions: L 360 x W 360 x D 20  
☐ Recycling Containment Closure Completion Date: \_\_\_\_\_

4.

**Bonding:**

- ☒ 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.

5.

**Fencing:**

- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☒ Alternate. Please specify 8' Tall Chain Link Fencing

6.

**Signs:**

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☒ Signed in compliance with 19.15.16.8 NMAC

7.

**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.**

8.

**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

☐ Yes ☒ No  
☐ NA

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

☐ Yes ☒ No  
☐ NA

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

9.

**Recycling Facility and/or Containment Checklist:**

**Instructions:** Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements.
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements.
- ☐ 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 owner(s)**

10.

**Operator Application Certification:**

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): \_\_\_\_\_ Heather Huntington \_\_\_\_\_ Title: \_\_\_\_\_ Permitting Technician \_\_\_\_\_

Signature: \_\_\_\_\_  \_\_\_\_\_ Date: \_\_\_\_\_ 10/20/22 \_\_\_\_\_

e-mail address: \_\_\_\_\_ hhuntington@enduringresources.com \_\_\_\_\_ Telephone: 505-636-9751 \_\_\_\_\_

11.

**OCD Representative Signature:** \_\_\_\_\_ **Approval Date:** \_\_\_\_\_

**Title:** \_\_\_\_\_ **OCD Permit Number:** \_\_\_\_\_

- ☐ OCD Conditions \_\_\_\_\_
- ☐ Additional OCD Conditions on Attachment \_\_\_\_\_

**Enduring Resources NEU 2207-16B Water Recycle Facility 3RF-28 Primary Liner Compromise Repair Report**

On October 11, 2022, a leak was discovered in the primary liner at the NEU 2207-16B 3RF-28. The ground liner is intact, the middle layer rock guard is also intact, and the primary liner or outer most liner is the damaged liner. The primary liner was compromised during transfer to frac operations and pumped below the damaged area within hours. The water level is currently 12' below the location of the liner compromise. Leak detection inspections have continued per permit requirements. Enduring Resources has been put on the vendor's schedule with a tentative repair date starting the week of 10/24/22.

**Venegas, Victoria, EMNRD**

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**From:** Venegas, Victoria, EMNRD  
**Sent:** Thursday, October 27, 2022 2:54 PM  
**To:** Heather Huntington  
**Subject:** 3RF-28 NEU 2207-16B Water Recycling Facility

**3RF-28 NEU 2207-16B Water Recycling Facility**

Ms. Huntington,

NMOCD has reviewed the extension request submitted by [372286] ENDURING RESOURCES, LLC on 10/20/2022 to repair the primary liner at 3RF-28 NEU 2207-16B Water Recycling Facility. Per 19.15.34.13B.(5) OPERATIONAL REQUIREMENTS FOR RECYCLING CONTAINMENTS: *If the containment's primary liner is compromised above the fluid's surface, the operator shall repair the damage or initiate replacement of the primary liner within 48 hours of discovery or seek an extension of time from the division district office.*

NMOCD has approved a thirty-day extension request to repair the liner at the 3RF-28 NEU 2207-16B Water Recycling Facility from October 11, 2022, to November 11, 2022, with the following conditions of approval:

- [372286] ENDURING RESOURCES, LLC is required to perform an incremental fluid level test to verify that the liner is working properly.
- [372286] ENDURING RESOURCES, LLC will fill the containment. [372286] ENDURING RESOURCES, LLC will pause filling operations at every 10% of total fluid capacity above the minimum level.
- [372286] ENDURING RESOURCES, LLC will maintain the liquid level for each 10% volume increase for 24 hours and inspect and operation the leak detection system at the end of the 24-hour period.
- If there are no liquids present in the leak detection system, [372286] ENDURING RESOURCES, LLC may proceed to fill the next 10% volume and repeat the process until the containment full design capacity minus the 3-feet of freeboard is reached.
- If liquids are present, [372286] ENDURING RESOURCES, LLC should immediately cease the incremental fill test and perform a liner inspection. [372286] ENDURING RESOURCES, LLC should provide written notice of the fluid detection and liner inspection findings to OCD via [OCD Online](#) using a C-147 (long form) with the "Other" box checked and "Notice of fluid detection" written as the explanation of "Other."
- Upon notification of fluid detection in the leak detection system, the OCD will verify the source of water (condensation versus produced water).
- If the detected fluid is confirmed to be condensation, the OCD will issue a written approval to proceed with the incremental fluid level test.
- If the detected fluid is confirmed to be produced water, [372286] ENDURING RESOURCES, LLC must comply with 19.15.34.13 NMAC [372286] ENDURING RESOURCES, LLC must provide written notification to [OCD Online](#) on the actions taken to comply with 19.15.34.13 NMAC.
- After fluid is detected in the leak detection system, the incremental fill test cannot continue until after a written approval to proceed is issued by the OCD.
- [372286] ENDURING RESOURCES, LLC must submit copies of a report detailing the incremental fluid level test process and results through the [OCD Online](#) system using a C-147 (long form) with the "Other" box checked. "Incremental Fluid Level Test Report" should be written as the explanation of "Other." Form C-147 must be completed and include information in sections 1 General Information, 2 Recycling Facility, 3 Recycling Containment, 4 Bonding, and 10 Operator Application Certification. Section 9 Recycling Facility and/or Containment Checklist may also need to be partially completed. Operators should verify that the resumption of operations notification does not result in any changes to the recycling containment operating and maintenance plan or the closure plan. If the recommencement of operations will affect the operating and maintenance plan or closure plan, operators should check those boxes in section 9 and provide updated plans or plan addendums as attachments to the C-147.

- Any additional extension request or notification must be submitted to OCD Permitting for evaluation.

Please let me know if you have any additional questions.

Regards,

**Victoria Venegas** • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

(575) 909-0269 | [Victoria.Venegas@emnrd.nm.gov](mailto:Victoria.Venegas@emnrd.nm.gov)

<http://www.emnrd.state.nm.us/OCD/>



**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 152280

**CONDITIONS**

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 152280
	Action Type: [C-147] Water Recycle Long (C-147L)

**CONDITIONS**

Created By	Condition	Condition Date
vvenegas	NMOCD has approved a thirty-day extension request to repair the liner at the 3RF-28 NEU 2207-16B Water Recycling Facility from October 11, 2022, to November 11, 2022. o [372286] ENDURING RESOURCES, LLC is required to perform an incremental fluid level test to verify that the liner is working properly. o Any additional extension request or notification must be submitted to OCD Permitting for evaluation.	10/27/2022