

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) **Notice of Fluid Detection**

*** 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): KWU 2309 19K Water Recycle Facility
OCD Permit Number: 3RF-43 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr NE/4 SW/4 Section 19 Township 23N Range 9W County: San Juan
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☒ **Recycling Facility:**

Location of recycling facility (if applicable): Latitude 36.210825 Longitude -107.831105 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 36.210825 Longitude -107.831105 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: 213,698 bbl Dimensions: L 500' x W 240' x D 25'

☐ 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 Tech

Signature:  Date: 08/20/2021

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 KWU 2309-19K 3RF-43 Primary Liner Compromise Repair Report

The primary liner repair was completed as of 7/13/21. The containment fill up started on 7/15/21 and the first 10% fill level was reached in mid-August. Fluid was detected in the leak detection and we suspect the liner is leaking. Containment fill up operations have ceased per the conditions of approval dated 5/3/2021 for the initial repair and fill up process. We anticipate having water analysis results by 8/27/21 to determine if the water in the leak detection is produced water. Enduring's plan is to transfer water from the KWU 2309-19K 3RF-43 to an AST near the WLU 2309-24N3RF-29, locate, and complete liner repairs. Enduring Resources will re-initiate the fill up process per conditions of approval previously mentioned. Enduring Resources is awaiting BLM approval of the AST site and the liner vendor has tentatively scheduled repairs to begin 9/13/21. It is also our understanding that due to the liner repairs the requirement for extension is suspended.



Enduring Resources, LLC

Recycling Facility Inspection Sheet

SITE INFORMATION

Location Name KWU 2309-19K Permit Number ~~55-401~~ 381-43
 Section 19 Township 23N Range 9W County SAN JUAN State NM
 Time Inspection Began 1319 Time Inspection Ended 1400
 Recycling Facility ☐ Recycling Containment ☒ Water Level (Feet) 55

GENERAL INFORMATION

Containment Currently Contains Fluids	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Fencing is in Good condition and Functional	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Gates are Closed and locked	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Facility sign is visible and in good condition	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Signs of Surface Water Runon?	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>

COMMENTS

INSPECTION INFORMATION FOR RECYLING CONTAINMENT

Containment has a minimum of three feet of freeboard	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Containment water surface is free of visible signs of oil	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Injection and withdrawal of water is done through a header	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Oil absorbent booms are on-site and in good condition	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Is there evidence of a leak in the liner above the waterline	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>
Site is free of evidence of leaks, spills or releases	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>

Upper Leak Detection (ULD)

Water Present in ULD?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
Total Depth of ULD (ft)	<u>104.2 1/4</u>			
Depth to Water in ULD (ft)	<u>87.2</u>			
Height of Water in ULD	<u>17</u>			
Gallons of Water Removed	<input type="text"/>			

Lower Leak Detection (LLD)

Water Present in ULD?	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
Total Depth of LLD (ft)	<input type="text"/>			
Depth to Water in LLD (ft)	<input type="text"/>			
Height of Water in LLD	<input type="text"/>			
Gallons of Water Removed	<input type="text"/>			

If leak detection contained liquid, was it removed?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
If leak detection contained liquid, was HSE notified?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>

COMMENTS

BIRD MITIGATION SYSTEM

Audio Bird Deterrents are present and in working order	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Visual Bird Deterrents are present and in working order	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Facility was inspected, and no evidence of bird mortality was found	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
If evidence of bird mortality was found, HSE was notified	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input checked="" type="checkbox"/>

COMMENTS

Name (Print) Jeff SAGVASHN

Date 8.13.21

Name (Signature) *Jeff SAGVASHN*

Company ER



Enduring Resources, LLC

Recycling Facility Inspection Sheet

SITE INFORMATION

Location Name KWU 2304-19K Permit Number 4301 Pod 2
 Section 19 Township 23 Range 9 County San Juan State NM
 Time Inspection Began 1:34 Time Inspection Ended 2:30
 Recycling Facility ☐ Recycling Containment ☒ Water Level (Feet) 60

GENERAL INFORMATION

Containment Currently Contains Fluids	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Fencing is in Good condition and Functional	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Gates are Closed and locked	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Facility sign is visible and in good condition	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Signs of Surface Water Runon?	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>

COMMENTS

INSPECTION INFORMATION FOR RECYCLING CONTAINMENT

Containment has a minimum of three feet of freeboard	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Containment water surface is free of visible signs of oil	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Injection and withdrawal of water is done through a header	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Oil absorbent booms are on-site and in good condition	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Is there evidence of a leak in the liner above the waterline	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	NA	<input type="checkbox"/>
Site is free of evidence of leaks, spills or releases	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>

Upper Leak Detection (ULD)

Water Present in ULD? YES ☒ NO ☐
 Total Depth of ULD (ft) 104.2
 Depth to Water in ULD (ft) 81.2
 Height of Water in ULD 23 ft
 Gallons of Water Removed Abt 480

Lower Leak Detection (LLD)

Water Present in ULD? YES ☐ NO ☐
 Total Depth of LLD (ft)
 Depth to Water in LLD (ft)
 Height of Water in LLD
 Gallons of Water Removed

If leak detection contained liquid, was it removed? YES ☒ NO ☐ NA ☐
 If leak detection contained liquid, was HSE notified? YES ☒ NO ☐ NA ☐

COMMENTS

Ran pump from 1:50 - 2:30 @ 10 gal per minute

BIRD MITIGATION SYSTEM

Audio Bird Deterrents are present and in working order	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Visual Bird Deterrents are present and in working order	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
Facility was inspected, and no evidence of bird mortality was found	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input type="checkbox"/>
If evidence of bird mortality was found, HSE was notified	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	NA	<input checked="" type="checkbox"/>

COMMENTS

Name (Print) Tina Harris

Date 8-18-21

Name (Signature) [Signature]

Company ER

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 43613

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 43613
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	Enduring Resources KWU 2309-19K 3RF-43 Primary Liner Compromise Repair Report has been accepted as part of the KWU 2309-19K RECYCLING FACILITY [fcs1902230487] administrative record. Please provide an update on the status of the primary liner.	9/15/2021