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

NMOCD
FEB 04 2019
DISTRICT III

Recycling Facility and/or Recycling Containment

Type of Facility: ☒ Recycling Facility ☒ Recycling Containment*

Type of action: ☐ Permit ☒ Modification ☐ Closure ☐ Registration ☐ Extension ☐ Other (explain) pCS 1900332555

*** 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, New Mexico 87401**

Facility or well name (include API# if associated with a well): **W Escavada Unit 300H**

OCD Permit Number: 3RF-42 (For new facilities the permit number will be assigned by the district office)

U/L or Qtr/Qtr **A** Section **17** 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 **36.14847** Longitude **-107.589762** 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 **36.143847** Longitude **-107.589762** 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 Double lined 30 mil secondary

☒ String-Reinforced

Liner Seams: ☒ Welded ☐ Factory ☐ Other Volume: **50,000** bbl Dimensions: Radius **189.5'** x Height **11'**

☐ Recycling Containment Closure Completion Date:

(5)

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_____

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. *Attached design plan section modification*
- ☐ 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): **Andrea Felix** Title: **Regulatory Manager**

Signature: Date: **2/4/2019**

e-mail address: **afelix@enduringresources.com** Telephone: **505-386-8205**

11.
OCD Representative Signature: **Approval Date:** 2/12/19

Title: Environmental Spec. **OCD Permit Number:** 3RF-42

☐ OCD Conditions

☐ Additional OCD Conditions on Attachment

Enduring Resources IV, LLC
WEU 300H Recycling Facility / Containment
#3RF-42
Modification

1-19-2019 The steel brackets holding the liner to the AST side walls popped off and fell into the containment. The containment was emptied and repairs were initiated. High winds were experienced that day and damaged the liner beyond repair. It was determined the liner was not cut to the correct size and when water volume was added the volume caused the clamps to break. Enduring chose to bring in a larger AST to replace the AST on location and will confirm upon set p that the correct liners sizes are installed prior to adding water volume.

Modification to Volume: New volume **50,000 bbl** Dimensions: **Radius 18.95' x Height 11'**

Section 3 Design and Construction Plan

- 3.a Liner material

Modification to liner: The recycling containment is designed to have a 45 mil string reinforced LLDPE liner as the primary liner, and a **30 mil LLDPE liner** as the secondary liner.

The primary (upper) liner is a 45-mil LLDPE string reinforced liner resistant to UV light, petroleum hydrocarbons, salt and acidic/alkaline solutions and covers the bottom sides of the pit including the three (3) feet of freeboard. The secondary liner is a 30 mil LLDPE liner. Modification is in compliance with 19.15.34.12

Section 4 Design and Construction Plan

- 4.a Liner material

Modification to liner: The recycling containment is designed to have a 45 mil string reinforced LLDPE liner as the primary liner, and a 30 mil LLDPE liner as the secondary liner.

The primary liner will be a 45-mil, LLDPE, string reinforced liner that is composed of material that is resistant to ultraviolet light, petroleum hydrocarbons, salt solutions, acidic solutions and alkaline solutions. Liner compatibility meets the conductivity requirement of 1×10^{-9} cm/sec. The secondary liner is a 30-mil LLDPE string reinforced with a hydraulic conductivity no greater than 1x 10-9 cm sec.

- 4.b Liner material

Modification to liner: The recycling containment is designed to have a 45 mil string reinforced LLDPE liner as the primary liner, and a 30 mil LLDPE liner as the secondary liner.

The secondary liner will be a 30-mil, LLDPE, string reinforced liner that is composed of material that is resistant to ultraviolet light, petroleum hydrocarbons, salt solutions, acidic solutions and alkaline solutions. Liner compatibility meets the conductivity requirement of 1×10^{-9} cm/sec.