Type of Facility:

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

<u>R</u>	lecy	cling	<u>Facility</u>	<u>/ and/or</u>	Recy	cling	<u>Containment</u>
	•	_	•				

Recycling Containment*

Recycling Facility

Type of action: ☐ Permit ☐ Registration ☐ Modification ☐ Extension ☐ Closure ☐ Other (explain) Completed liner repair/recommencement of incremental fill testing
* 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 IV, 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): <u>SEU 2206-20M Water Recycle Facility/Containment</u>
OCD Permit Number: #3RF-30
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2. Note: The image of the imag
Location of recycling facility (if applicable): Latitude <u>36.11776</u> Longitude <u>107.488825</u> 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
Activity permitted under 19.15.36 NMAC explain type:
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. \(\text{Recycling Containment:} \) \(\text{Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year) } \)
Center of Recycling Containment (if applicable): Latitude36.11776 Longitude107.488825 NAD83
For multiple or additional recycling containments, attach design and location information of each containment
☐ Liner type: Primary Thickness45mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
⊠ String-Reinforced
Liner Seams: Welded Factory Other Volume: 212,746 bbl Dimensions: L 363' x W 350' x D 25'
Recycling Containment Closure Completion Date:

4.						
Bonding: Covered under bonding pursuant to 19.15.8 NIMAC per 19.15.34.15(A)(2) NIMAC (These containments are limited to only the well-	s owned or					
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 foot chain link fence						
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.						
<u>Variances</u> :						
Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, hur environment.	nan health, and the					
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	ed, 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.	☐ Yes ⊠ No					
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ⊠ No					
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; written approval obtained from the municipality	□ 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	☐ Yes ⊠ No					
Society; topographic map						
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).	☐ Yes ⊠ No					
- Topographic map; visual inspection (certification) of the proposed site						
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ⊠ No					
- Visual inspection (certification) of the proposed site; aerial photo; satellite image						
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	☐ Yes ⊠ No					
initial application. - NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site						
Within 500 feet of a wetland.						
- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	☐ Yes ⊠ No					

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 belie Name (Print): Heather Huntington Signature: Heather Huntington Date: 11/18/24 e-mail address: hhuntingotn@enduringresources.com Telephone: 505-636-9751					
OCD Representative Signature: <u>Victoria Venegas</u> Title: Environmental Specialist X OCD Conditions Additional OCD Conditions on Attachment	Approval Date: 11/19/2024 OCD Permit Number: 3RF-30				

Enduring Resources identified the location of the liner leak and repaired the liner on the 3RF-30 - SEU 2206 - 20M FACILITY ID [fVF1828850052] on 11/10/24. A sample analysis and the incremental fill test record from the leak discovery on 11/4/24 are attached.

Enduring Resources would like to request permission to begin the incremental fill test process as the liner has been repaired.

3RF-30 - SEU 2206 - 20M FACILITY ID [fVF1828850052] SEU POND LEAK TEST

LEVEL VOLUME 24 LEAK TEST

START	5'8"	24,000	30 seconds
10%	8'2"	37,300	30 seconds
20%	10'2"	50,600	1hr
30%	12'2"	63,900	
40%	13'11"	77,200	
50%	15'6"	90,500	
60%	17'1"	103,800	
70%	18'6"	117,100	
80%	19'10"	130,400	
90%	21'2"	143,700	
100%	23'	157,000	

Operations halted and prep from drain.



Complete Water Analysis

Analysis Values

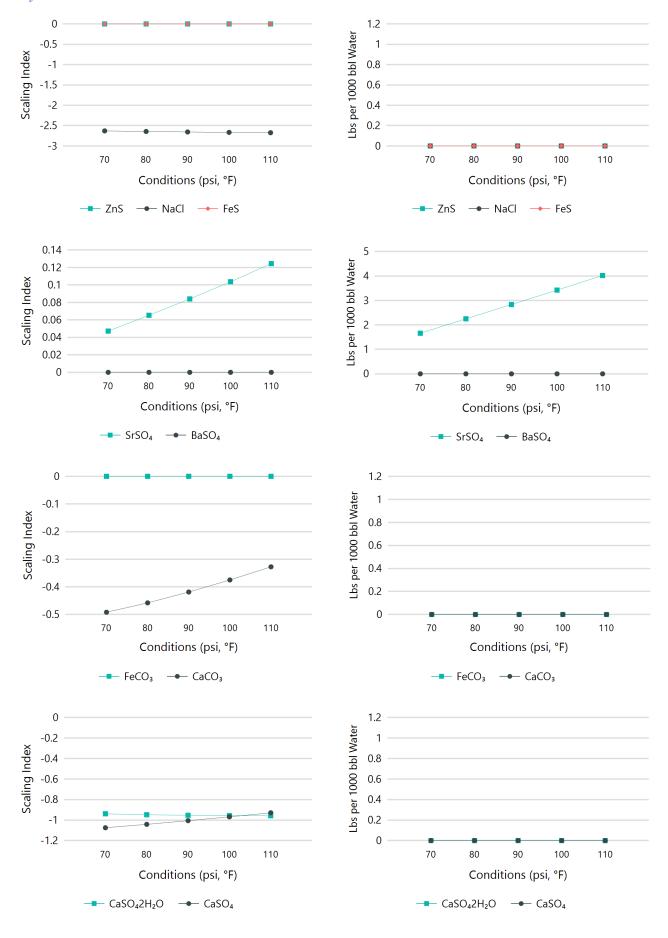
Company: Enduring Resources Well Name: SEU POND

Field:San Juan
State:NM

Sample Point:Pond

Sample ID:OD_202407825 Sample Date:11/4/2024 Analysis Date:11/13/2024 Analyst:Emily Nguyen Report Date:11/14/2024

	Field D	ata			I	norganic	S		Metals	
Aqueous Aqueous Measured Calculated		Gravity: Gravity:	7.0 mg/L 646.6 60 1 g/mL 1.02 1.0209 30427	Chloride Sulfates Boron (B Phospho Scale In Phospho	(SO ₄): 3): orus (P) <u>hibitor</u> orus	· Residuals	mg/L 14516 4400 6.6 0.5 s: ppm 0.45	Potassiu Calcium Strontiur Barium (Iron (Fe) Zinc (Zn	um (Mg): m (K): (Ca): m (Sr): Ba): :): ese (Mn): o): (Cu):	mg/L 10599 45 51 111 22 0.00 0.0 0.00 0.15 0.0 No Data
			N	l odeling	Data:	Scaling	Indices			
Conditions	s (psi, °F)	ZnS	SrSO ₄	NaCl	FeS	FeCO ₃	CaSO ₄ 2H ₂ O	CaSO ₄	CaCO ₃	BaSO ₄
515	110	0.00	0.12	-2.67	0.00	0.00	-0.96	-0.93	-0.33	0.00
390	100	0.00	0.10	-2.67	0.00	0.00	-0.96	-0.97	-0.37	0.00
265	90	0.00	0.08	-2.66	0.00	0.00	-0.95	-1.01	-0.42	0.00
140	80	0.00	0.07	-2.64	0.00	0.00	-0.95	-1.04	-0.46	0.00
15	70	0.00	0.05	-2.63	0.00	0.00	-0.94	-1.07	-0.49	0.00
			S	caling Ir	ndex R	Risk Asse	ssment			
Low F		<0.00	<0.7	<0.00	<0.00	<0.47	<0.04	<0.04	<0.47	<0.7
Moderat			0.7-1.47			0.47-1.30	>0.08	>0.08	0.47-1.30	
High F	Risk	>0.00	>1.47	>0.00	>0.00	>1.30			>1.30	>1.47
Modeling Data: Excess Solute, Ibs per 1000 bbls Water Produced										
Condition	s (psi, °F)	ZnS	SrSO ₄	NaCl	FeS	FeCO ₃	CaSO ₄ 2H ₂ O	CaSO ₄	CaCO ₃	BaSO ₄
515	110	0.0000	4.0190	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
390	100	0.0000	3.4224	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
265	90	0.0000	2.8334	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
140	80	0.0000	2.2496	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
15	70	0.0000	1.6587	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



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

Action 404415

CONDITIONS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way	Action Number:
Centennial, CO 80111	404415
	Action Type:
	[C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	This application and Form C-147 are approved. Thank you for your cooperation.	11/19/2024