

**C-147 Extension request (Sand Dunes 2RF-171)**

NMOCD,

Chevron MCBU is requesting a “6-month Extension” from NMOCD for our Sand Dunes 2RF-171 (Section 11) Recycling Water Containments Structure (RWCS), due to well pad frac schedule shift for the next 6 months, which the last 20% water usage was October 2022.

Thank you for your time and support.

Thank you,

***Gene Barchetti***

**Lead Environmental Specialist – Factory**

**[ebarchetti@chevron.com](mailto:ebarchetti@chevron.com)**

**Mid-Continent**

6301 Deauville Blvd

Midland TX 79706

Cell : 724-366-5378

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) "Extension of cessation of

operations request from May 1<sup>st</sup> to October 31<sup>st</sup>, 2023.

**\* 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: Chevron U.S.A. Inc. (For multiple operators attach page with information) OGRID #: 4323  
Address: 1400 Smith Street, Houston, TX 77002  
Facility or well name (include API# if associated with a well): Sand Dunes Section 11 Recycling Containment  
OCD Permit Number: 2RF-171 (For new facilities the permit number will be assigned by the district office)  
U/L or Qtr/Qtr L/M Section 11 Township 24 Range 31 County: Eddy  
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☐ **Recycling Facility:**

Location of recycling facility (if applicable): Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ 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: (Location: U/L: L/M, Section: 11, T24S, R31E)**

☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)

Center of Recycling Containment (if applicable): Latitude 32.227656 Longitude -103.754139 NAD83

☐ For multiple or additional recycling containments, attach design and location information of each containment

☒ Lined ☒ Liner type: Thickness 60 mil ☐ LLDPE ☒ HDPE ☐ PVC ☐ Other \_\_\_\_\_

☐ String-Reinforced

Liner Seams: ☒ Welded ☐ Factory ☒ Other Field Volume: 637,940 bbl Dimensions: L 900 x W 900 x D 15

☐ 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 Eight-foot-tall game fence with 3 strands of barbed wire on top. Please see attached (Sec. VIII.B) regarding proposed fencing for details.

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): Gene Barchetti Title: Sr. Workforce Safety and Environmental Specialist - Factory

Signature: Gene Barchetti Date: 4/6/2023

e-mail address: ebarchetti@chevron.com Telephone: C: 724-366-5378

11.

OCD Representative Signature: Victoria Venegas Approval Date: 04/10/2023

Title: Environmental Specialist OCD Permit Number: 2RF-171

☒ OCD Conditions \_\_\_\_\_

☒ Additional OCD Conditions on Attachment

San Dunes NM (2RF-171) Section 11 North Weekly Inspections					
DATE (Week of)	BIRD DETERRENT ISSUES	FLUID IN LEAK DETECTION ISSUES	FENCE ISSUES	BERM OR LINER ISSUES	NOTES
12/21/2022	No	No	No	No	No Issues
12/28/2022	No	No	No	No	No Issues
1/4/2023	No	No	No	No	No Issues
1/11/2023	No	No	No	No	No Issues
1/18/2023	No	No	No	No	No Issues
1/25/2023	No	No	No	No	No Issues
2/1/2023	No	No	No	No	No Issues
2/8/2023	No	No	No	No	No Issues
2/15/2023	No	No	No	No	No Issues
2/22/2023	No	No	No	No	No Issues
3/1/2023	No	No	No	No	No Issues
3/8/2023	No	No	No	No	No Issues
3/15/2023	No	No	No	No	No Issues
3/22/2023	No	No	No	No	No Issues
3/29/2023	No	No	No	No	No Issues

Sannd Dunes NM (2RF-171) Section 11 South Weekly Inspections					
DATE (Week of)	BIRD DETERRENT ISSUES	FLUID IN LEAK DETECTION ISSUES	FENCE ISSUES	BERM OR LINER ISSUES	NOTES
12/21/2022	No	No	No	No	
12/28/2022	No	No	No	No	
1/4/2023	No	No	No	No	
1/11/2023	No	No	No	No	
1/18/2023	No	No	No	No	
1/25/2023	No	Yes	No	No	
2/1/2023	No	Yes	No	No	
2/8/2023	No	Yes	No	No	
2/15/2023	No	No	No	No	
2/22/2023	No	No	No	No	
3/1/2023	No	No	No	No	
3/8/2023	No	No	No	No	
3/15/2023	No	No	No	No	
3/22/2023	No	No	No	No	
3/29/2023	No	No	No	No	

**Venegas, Victoria, EMNRD**

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**From:** Venegas, Victoria, EMNRD  
**Sent:** Monday, April 10, 2023 2:10 PM  
**To:** ebarchetti@chevron.com  
**Subject:** 2RF-171 - SAND DUNES SECTION 11 RECYCLING CONTAINMENT FACILITY ID [fVV2208136959]  
**Attachments:** C-147 2RF-171 - SAND DUNES SECTION 11 RECYCLING CONTAINMENT FACILITY ID [fVV2208136959].pdf

**2RF-171 - SAND DUNES SECTION 11 RECYCLING CONTAINMENT FACILITY ID [fVV2208136959]**

Good afternoon Mr. Barchetti,

NMOCD has reviewed the determination of cessation of operations extension request for 2RF-171 - SAND DUNES SECTION 11 RECYCLING CONTAINMENT FACILITY ID [fVV2208136959], received from [4323] CHEVRON USA INC on May 6, 2023. The cessation for operations extension request is approved with the following conditions of approval:

- 2RF-171 - SAND DUNES SECTION 11 RECYCLING CONTAINMENT FACILITY ID [fVV2208136959] registration/permit expires on March 15, 2027.
- 2RF-171 - SAND DUNES SECTION 11 RECYCLING CONTAINMENT FACILITY ID [fVV2208136959] extension of cessation of operations is approved from May 1<sup>st</sup>, 2023, to October 31<sup>st</sup>, 2023. Per NMAC 19.15.34.13.C extensions of the cessation of operations are considered for a maximum length of six months. **If after this 6-month approved period, the containment was not utilized at a minimum of 20% fluid capacity, no additional extensions would be granted, and the operator would be directed to remove all fluids and proceed with the closure requirements.**
- [4323] CHEVRON USA INC will maintain a liquid level in the containment that is at least equal to the weight of the liner plus 20%. [4323] CHEVRON USA INC may maintain a higher liquid level if they choose.
- [4323] CHEVRON USA INC will provide written notice to NMOCD with at least 72 hours, but no more than one week, prior to the recommencement of operations. Recommencement of recycling operations means that the operator plans to resume moving fluids through the containment and discharging fluids from the containment.
  - At the resumption of recycling operations, [4323] CHEVRON USA INC is required to perform an incremental fluid level test for containment liquid levels above the minimum liquid level.
  - [4323] CHEVRON USA INC will fill the containment. [4323] CHEVRON USA INC will pause filling operations at every 10% of total fluid capacity above the minimum level.
  - [4323] CHEVRON USA INC will maintain the liquid level for each 10% volume increase for 24 hours and inspect and operate the leak detection system at the end of the 24-hour period.
  - If there are no liquids present in the leak detection system, [4323] CHEVRON USA INC 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, [4323] CHEVRON USA INC should immediately cease the incremental fill test and perform a liner inspection. [4323] CHEVRON USA INC should provide written notice of the fluid detection and liner inspection findings through [OCD Online](#) using a C-147 (long form) with the "Other" box checked and "Notice of fluid detection" written as the explanation of "Other."
  - If the detected fluid is confirmed to be condensation, [4323] CHEVRON USA INC will proceed with the incremental fluid level test.
  - If the detected fluid is confirmed to be produced water, [4323] CHEVRON USA INC must comply with 19.15.34.13 NMAC. [4323] CHEVRON USA INC must provide written notification through [OCD Online](#) on the actions taken to comply with 19.15.34.13 NMAC.
  - [4323] CHEVRON USA INC must submit copies of the detailed containment inspection records for the prior three (3) months and a report detailing the incremental fluid level test process and results to through [OCD Online](#) using a C-147 (long form) with the "Other" box checked. "Recommencement of Operations - Incremental Fluid Level Test" 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. [4323] CHEVRON USA INC 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.

- [4323] CHEVRON USA INC will continue to operate, maintain, and close the 2RF-171 - SAND DUNES SECTION 11 RECYCLING CONTAINMENT FACILITY ID [fVV2208136959] in compliance with 19.15.34 NMAC, to include but not limited detailed inspection records, removal of trash/oil from containment, and monthly C-148 reporting (even if there is zero activity).
- A minimum of 3-feet freeboard must always be maintained in the recycling containment during operations.
- Water reuse and recycling from 2RF-171 - SAND DUNES SECTION 11 RECYCLING CONTAINMENT FACILITY ID [fVV2208136959] is limited to wells owned or operated by [4323] CHEVRON USA INC.

Please let me know if you have any 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)

<https://www.emnrd.nm.gov/ocd/>





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1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
811 S. First St., Artesia, NM 88210  
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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 204847

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 204847
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	• 2RF-171 - SAND DUNES SECTION 11 RECYCLING CONTAINMENT FACILITY ID [fVV2208136959] extension of cessation of operations is approved from May 1st, 2023, to October 31st, 2023. Per NMAC 19.15.34.13.C extensions of the cessation of operations are considered for a maximum length of six months. If after this 6-month approved period, the containment was not utilized at a minimum of 20% fluid capacity, no additional extensions would be granted, and the operator would be directed to remove all fluids and proceed with the closure requirements.	4/10/2023