

2RF - 120

**Hayhurst Section 2
Frac Ponds &
Recycle Facility
(East A & West B)**

**Cessation of Operations
Extension Variance Approval
August 2002 to January 2021**

**Chevron USA Inc
July 28, 2020**

From: [LucasKamat, Susan, EMNRD](#)
To: [Vallejo, Tony](#)
Cc: [Stuart, Matt](#); [Visairo, Omar](#); [Shi, Wei](#); [Sule, Abdul A](#)
Subject: 2RF-120 Hayhurst NM Section 2 Frac Pond and Recycle Facility Cessation of Operations Extension Variance Approval, August 2020 to January 2021
Date: Tuesday, July 28, 2020 4:15:00 PM

Good afternoon, Mr. Vallejo.

The Oil Conservation Division (“OCD”) has reviewed the determination of cessation of operations extension request for 2RF-120 Hayhurst NM Section 2 Frac Pond and Recycle Facility, received from Chevron USA (“Chevron”) on May 11, 2020. The cessation for operations extension and variance request is approved with the following conditions of approval.

- The 2RF-120 Hayhurst NM Section 2 Frac Pond and Recycle Facility registration/permit expires on March 22, 2023.
- Chevron must recycle at least 50,497 bbls of produced water from the East/A frac pond and 50,024 bbls of produced water from the West/B frac pond no later than January 31, 2021 to be considered in operations.
- Chevron will maintain a liquid level in the containment that is at least equal to the weight of the liner plus 20%. Chevron may maintain a higher liquid level if they choose. The 0.5 ft minimum liquid level calculation and the minimum liquid level included in the variance request is approved.
- Chevron will provide written notice to the OCD (email to ocd.enviro@state.nm.us) 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, Chevron is required to perform an incremental fluid level test for containment liquid levels above the minimum liquid level.
 - Chevron will fill the containment. Chevron will pause filling operations at every 10% of total fluid capacity above the minimum level.
 - Chevron 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, Chevron 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. eat the process until the containment full de reached.

- ❖ If liquids are present, Chevron should immediately cease the incremental fill test and perform a liner inspection. Chevron should provide written notice of the fluid detection and liner inspection findings to the OCD (email to ocd.enviro@state.nm.us) 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, 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, Chevron must comply with 19.15.34.13 NMAC. Chevron must provide written notification (email to ocd.enviro@state.nm.us) on the actions taken to comply with 19.15.34.13 NMAC. If produced water 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.

- ❖ Chevron 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 the OCD. Enviro mailbox using a C-147 (long form) with the “Other” box checked. “Recommendation 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. 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.
 - If there was no produced water detected in the leak detection system and there are no changes to the operating and maintenance plan or closure plan, Chevron may proceed with the resumption of operations.
 - If there was produced water detected in the leak detection system or there were changes to the operating and maintenance plan or closure plan, Chevron cannot proceed with the resumption of operations until OCD approves the C-147.

- Chevron will continue to operate, maintain, and close the 2RF-120 Hayhurst NM Section 2 Frac Pond and Recycle Facility in compliance with 19.15.34 NMAC, to include but not limited to: detailed inspection records, removal of trash/oil from containment,

and monthly C-148 reporting for each recycling containment (even if there is zero activity).

- Water reuse and recycling from 2RF-120 Hayhurst NM Section 2 Frac Pond and Recycle Facility is limited to wells owned or operated by Chevron OGRID # 4323.
- A minimum of 3-feet freeboard must be maintained in the recycling containment at all times during operations.
- Chevron should notify the surface owner of the cessation of operations extension request by August 28, 2020.
- Chevron may request a variance for an additional extension to the determination of cessation of operations, which will be reviewed on a case-by-case basis and evaluated on their merit. Extensions are considered for a maximum length of six months. Additional requests must be submitted (email to ocd.enviro@state.nm.us) on a Form C-147 (long form) as an Extension request and should include a variance request and summary per 19.15.34.16 NMAC and the detailed inspection records for the prior three (3) months. The extension request should be submitted no later than December 31, 2020.

Please keep a copy of this electronic communication for your files, as no paper copy of the approval will be delivered. The signed C-147 will be saved in 2RF-120 electronic file on the OCD website at <http://ocdimage.emnrd.state.nm.us/imaging//AEOrderFileView.aspx?appNo=pAB1805848475> within 24-hours.

Please do not hesitate to contact me if you have any questions or comments.

Regards,
Susan

Susan A. Lucas Kamat

Environmental Scientist

Oil Conservation Division

Energy, Minerals, and Natural Resources Department

5200 Oakland Avenue, Suite 100

Albuquerque, New Mexico 87113

(505) 670-8745

Susan.LucasKamat@state.nm.us

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 March 31, 2015

Recycling Facility and/or Recycling Containment

Type of Facility: Recycling Facility Recycling Containment*
Type of action: Permit Registration
 Modification Extension
 Closure Other (explain) RWCS Variance

* 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): "HH NM Sec 2 Frac Pond and Recycle Facility"
OCD Permit Number: 2RF-120 (A and B) (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr N Section 2 Township 26 South Range 27 East County: Eddy
Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2.
 Recycling Facility: (Location: U/L N, Section 2, T26S, R27E)
Location of recycling facility (if applicable): Latitude 32.065644 Longitude -104.165003 NAD: 1927 1983
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 32.071130 Longitude -104.166990 NAD: 1927 1983
 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: 587,330 bbl Dimensions: L 796' x W 683' x D 23'
 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 _____

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.

Variations:

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): Tony Vallejo Title: HES Specialist – Factory Performance Support

Signature: *Tony Vallejo* Date: May 11, 2020

e-mail address: jvallejo@chevron.com Telephone: O: 432-687-7524 or C: 325-450-1413

11.

OCD Representative Signature: *Susan A. Luna-Rodriguez* Approval Date: July 28, 2020

Title: Environmental Scientist OCD Permit Number: 2RF-120

- OCD Conditions _____
- Additional OCD Conditions on Attachment

LucasKamat, Susan, EMNRD

From: Vallejo, Tony <JVallejo@chevron.com>
Sent: Monday, May 11, 2020 2:39 PM
To: Enviro, OCD, EMNRD
Cc: Stuart, Matt; Visairo, Omar; Shi, Wei; Sule, Abdul A; LucasKamat, Susan, EMNRD
Subject: [EXT] C-147 (2RF-120) RWCS Variance request
Attachments: HHNM_C-147_2RF-120_Variance request May_11_2020.pdf; 2RF-120_RWCS Inspections.xlsx

NMOCD,

Chevron MCBU is submitting the attached C-147 (2RF-120) recycled water containment structures (RWCS) Variance request with required documentation that are located in Hayhurst NM Section 2.

Note: The 2RF-120 RWCS Inspection document attached is missing inspections for:

- East (A) containment from mid Feb. to end of April - misunderstanding that switching from recycled water to brackish water would trigger stopping containment inspections.
- West (B) containment missing additional weekly inspections due to:
 - Governor Michelle Lujan Grisham and the New Mexico Department of Health communicating the public health advisory: Testing and travel guidelines for New Mexico sent out on March 18, 2020.

Please advise if further questions or information is required for this requested RWCS Variance approval process.

Thank you in advance for your time and support.

Thank you,

Tony Vallejo
HES Specialist - Factory Performance Support
Chevron MCBU
6301 Deauville Blvd/N3210
Midland, Tx 79706
O: 432-687-7524
C: 325-450-1413
jvallejo@chevron.com



Safety is as simple as ABC - Always Be Careful

C-147 Variance request (Hayhurst NM 2RF-120)

NMOCD,

Chevron MCBU is requesting a six month "Variance" from NMOCD for our Hayhurst NM 2RF-120 (section 2) Recycling Water Containments Structures (RWCS), due to the recent decrease in commodity oil prices, as a result of the coronavirus impacts on reduced demand and geopolitical pressures increasing supply. Chevron is managing our risk and exposure to the coronavirus, but we are also revamping our business plan, development strategy and activity levels in response to the current market and price environment. These impacts and strategy changes will defer the frac schedule beyond the six-month extension for the below registered RWCS listed below.

- **Previous extension approval: Section 2 (RWCS) – 2RF-120 (A & B)**
 - The request for a six-month extension for the determination of cessation of operations was approved by NMOCD per 19.15.34.13 NMAC. The extension is specifically for operations from February 1, 2020 through July 31, 2020.
- **Chevron will adhere to the following condition**
 - Both RWCSs (A-East and B-West) will maintain a volume of water that weighs equivalent to the liner plus 20% safety factor.
- **Chevron is submitting the following options to allow for flexibility**
 - Leave both RWCSs with the current treated produced water (TPW) as long as we maintain a volume of water that weighs equivalent to the liner plus 20% safety factor. Chevron estimates that water to equal 0.5 ft. of water in the RWCS. This will ensure the liner is protected from the elements.
 - If the water volume drops below the liner weight plus 20% safety factor (less than 0.5 ft of water), then Chevron will add brackish water to maintain the minimum weight.

Thank you,

Tony Vallejo
HES Specialist - Factory Performance Support
Chevron MCBU
6301 Deauville Blvd/N3210
Midland, Tx 79706
O: [432-687-7524](tel:432-687-7524)
C: [325-450-1413](tel:325-450-1413)
jvallejo@chevron.com



Safety is as simple as ABC - Always Be Careful

| | |
|--------------|-------------|
| Inspector : | Paul Frier |
| Date & Time: | 2/6/20 |
| RWCS Name: | HHNM 2 West |

| | |
|----------------------------|----------|
| NMOCD Registration number: | 2RF-120 |
| Allowable Leakage Rate: | 5.19 gpm |

| Inspection Checklist | YES | NO |
|--|-----|----|
| Fencing is in good repair | | |
| Access gates are locked (when access is not required) | | |
| Berms and elevation are in good repair to prevent surface run-on | | |
| Audible bird deterrent system is functioning properly | | |
| Absence of any dead birds or other wildlife | | |
| <p align="center">NOTE: The NMOCD and New Mexico Department of Game and Fish must be notified within 30 days if a dead bird or other wildlife is discovered.</p> | | |
| Absence of any visible oil layer on surface | | |
| <p align="center">NOTE: Immediate action must be taken if visible oil is detected</p> | | |
| Freeboard - minimum of 3 feet present? | | |
| Any visible damage to primary liner above fluid level to include those areas where pipes, hoses, supports, etc. may be in contact with liner | | |
| <p align="center">NOTE: If damaged, repair / replacement must commence within 48 hours of discovery or the NMOCD District Office must be contacted to seek an extension</p> | | |

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| Observed leakage rate less than established acceptable rate. | |
| Leak detection reading | |
| <p style="text-align: center;">NOTE:</p> <p style="text-align: center;">If leak detection monitoring indicates that the primary liner has been compromised below the fluid surface, immediately notify the NMOCD District Office and initiate efforts to repair/replace</p> | |
| Oil absorbent boom or other device is in good repair and available on site | |
| | |
| Comments | |
| on standby | |

| | |
|--------------|-------------|
| Inspector : | Paul Frier |
| Date & Time: | 2/6/20 |
| RWCS Name: | HHNM 2 East |

| | |
|----------------------------|----------|
| NMOCD Registration number: | 2RF-120 |
| Allowable Leakage Rate: | 5.19 gpm |

| Inspection Checklist | YES | NO |
|--|-----|----|
| Fencing is in good repair | | |
| Access gates are locked (when access is not required) | | |
| Berms and elevation are in good repair to prevent surface run-on | | |
| Audible bird deterrent system is functioning properly | | |
| Absence of any dead birds or other wildlife | | |
| <p align="center">NOTE: The NMOCD and New Mexico Department of Game and Fish must be notified within 30 days if a dead bird or other wildlife is discovered.</p> | | |
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| Observed leakage rate less than established acceptable rate. | |
| Leak detection reading | |
| <div data-bbox="321 241 956 527" style="border: 1px solid black; padding: 10px; text-align: center;"> <p>NOTE:</p> <p>If leak detection monitoring indicates that the primary liner has been compromised below the fluid surface, immediately notify the NMOCD District Office and initiate efforts to repair/replace</p> </div> | |
| Oil absorbent boom or other device is in good repair and available on site | |
| | |
| Comments | |
| filling with brackish fo frac | |

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|--------------|-------------|
| Inspector : | Paul Frier |
| Date & Time: | 2/13/20 |
| RWCS Name: | HHNM 2 East |

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|----------------------------|----------|
| NMOCD Registration number: | 2RF-120 |
| Allowable Leakage Rate: | 5.19 gpm |

| Inspection Checklist | YES | NO |
|--|-----|----|
| Fencing is in good repair | | |
| Access gates are locked (when access is not required) | | |
| Berms and elevation are in good repair to prevent surface run-on | | |
| Audible bird deterrent system is functioning properly | | |
| Absence of any dead birds or other wildlife | | |
| <p align="center">NOTE: The NMOCD and New Mexico Department of Game and Fish must be notified within 30 days if a dead bird or other wildlife is discovered.</p> | | |
| Absence of any visible oil layer on surface | | |
| <p align="center">NOTE: Immediate action must be taken if visible oil is detected</p> | | |
| Freeboard - minimum of 3 feet present? | | |
| Any visible damage to primary liner above fluid level to include those areas where pipes, hoses, supports, etc. may be in contact with liner | | |
| <p align="center">NOTE: If damaged, repair / replacement must commence within 48 hours of discovery or the NMOCD District Office must be contacted to seek an extension</p> | | |

| | |
|---|--|
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| Leak detection reading | |
| <p style="text-align: center;">NOTE:</p> <p style="text-align: center;">If leak detection monitoring indicates that the primary liner has been compromised below the fluid surface, immediately notify the NMOCD District Office and initiate efforts to repair/replace</p> | |
| Oil absorbent boom or other device is in good repair and available on site | |
| | |
| Comments | |
| <p style="text-align: center;">filling with brackish fo frac</p> | |

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|--------------|-------------|
| Inspector : | Paul Frier |
| Date & Time: | 2/13/20 |
| RWCS Name: | HHNM 2 West |

| | |
|----------------------------|----------|
| NMOCD Registration number: | 2RF-120 |
| Allowable Leakage Rate: | 5.19 gpm |

| Inspection Checklist | YES | NO |
|--|-----|----|
| Fencing is in good repair | | |
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| Leak detection reading | |
| <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p style="text-align: center;">NOTE:</p> <p style="text-align: center;">If leak detection monitoring indicates that the primary liner has been compromised below the fluid surface, immediately notify the NMOCD District Office and initiate efforts to repair/replace</p> </div> | |
| Oil absorbent boom or other device is in good repair and available on site | |
| | |
| Comments | |
| on standby | |

| | |
|--------------|-------------|
| Inspector : | Paul Frier |
| Date & Time: | 2/29/20 |
| RWCS Name: | HHNM 2 West |

| | |
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| | |
| Comments | |
| on standby | |

| | |
|--------------|-------------|
| Inspector : | Paul Frier |
| Date & Time: | 3/17/20 |
| RWCS Name: | HHNM 2 West |

| | |
|----------------------------|----------|
| NMOCD Registration number: | 2RF-120 |
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| Inspector : | Paul Frier |
| Date & Time: | 3/28/20 |
| RWCS Name: | HHNM 2 West |

| | |
|----------------------------|----------|
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| Observed leakage rate less than established acceptable rate. | |
| Leak detection reading | |
| <p style="text-align: center;">NOTE:</p> <p style="text-align: center;">If leak detection monitoring indicates that the primary liner has been compromised below the fluid surface, immediately notify the NMOCD District Office and initiate efforts to repair/replace</p> | |
| Oil absorbent boom or other device is in good repair and available on site | |
| | |
| Comments | |
| on standby | |