

**1RF - 452**

**James 20-29 Fed Com 37H  
Recycling Facility  
Registration Approval**

**Cimarex Energy  
August 4, 2020**

**From:** [LucasKamat, Susan, EMNRD](#)  
**To:** ["Mary Barnett"](#)  
**Cc:** [Larry Garrison](#)  
**Subject:** 1RF-452 James 20-29 Federal Com 37H Recycling Facility (Sec 20-23S-32E, Lea County, NM), Cimarex Energy  
**Date:** Wednesday, August 5, 2020 2:40:00 PM

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Good afternoon, Ms. Barnett.

The New Mexico Oil Conservation Division ("OCD") has reviewed the submitted Form C-147 and related documents, submitted to OCD on January 14, 2020, by Cimarex Energy ("Cimarex") for the proposed James 20-29 Federal Com 37H Recycling Facility located at Section 20, Township 23S, Range 32E in Lea County New Mexico. The Form C-147 form submitted for registering the James 20-29 Federal Com 37H Recycling Facility is accepted/approved. The facility has been assigned OCD Administrative Order number 1RF-452. Please reference this number in all future communications related to James 20-29 Federal Com 37H Recycling Facility and for future monthly reporting of recycling and reuse of produced water, drilling fluids and liquid oil field waste. A copy of the approved C-147 form for 1RF-452 is available through the OCD Imaging system at <http://ocdimage.emnrd.state.nm.us/imaging//AEOrderFileView.aspx?appNo=pSL2021758388>.

Notifications when operations begin or cease should be sent to me as the OCD Environmental Bureau permitting contact, with a cc to Mike Bratcher ([mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)) in the OCD District 2 Office.

As a condition of approval, Cimarex agrees to construct, operate, maintain, and close the James 20-29 Federal Com 37H Recycling Facility in compliance with 19.15.34 NMAC and submit monthly recycling and reuse of produced water, drilling fluids and liquid oil field waste via Form C-148. (C-148s are available for download at the OCD website at <http://www.emnrd.state.nm.us/OCD/forms.html>). Thank you for your assistance and cooperation on this matter.

Please keep a copy of this electronic communication for your files, as no paper copy of the approval will be delivered. A copy of this electronic communication will be saved in 1RF-446 electronic file on OCD Imaging referenced above.

Please do not hesitate to contact me if you have further questions or concerns.

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

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**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Tuesday, January 14, 2020 4:53 PM  
**To:** LucasKamat, Susan, EMNRD <Susan.LucasKamat@state.nm.us>  
**Subject:** FW: C-147 Application - James 20-29 Federal Com 37H - Sec 20-23S-32E, Lea County, NM

Bradford may have forwarded this to you already? – mb

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**From:** Larry Garrison <[LGarrison@cimarex.com](mailto:LGarrison@cimarex.com)>  
**Sent:** Monday, January 13, 2020 2:52 PM  
**To:** Billings, Bradford, EMNRD <[Bradford.Billings@state.nm.us](mailto:Bradford.Billings@state.nm.us)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Subject:** [EXT] C-147 Application - James 20-29 Federal Com 37H - Sec 20-23S-32E, Lea County, NM

Attached is a new C-147 application from Cimarex Energy for temporary Recycling Facility in Eddy County, NM

This site will be in use from 2/20/20 – 3/20/20

As with the other projects we have submitted, we will provide you with the monthly volume and closure report at the end of this project.

Thank you,

**Larry Garrison**  
Sr. Engineering Tech  
Cimarex Energy  
918-295-1795

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 Only

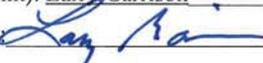
Type of action:  Permit  Registration  Modification  Closure  Other (explain) \_\_\_\_\_

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: Cimarex Energy Co. (For multiple operators attach page with information) OGRID #: 215099  
Address: 220 S. Cheyenne Ave Ste 1000 Tulsa, OK 74103  
Facility or well name (include API# if associated with a well): James 20-29 Federal Com 37H  
OCD Permit Number: 1RF-452 (For new facilities the permit number will be assigned by the district office)  
U/L or Qtr/Qtr NW/NW Section 20 Township 23S Range 32E County Lea  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

2.  
 **Recycling Facility:**  
Location of recycling facility (if applicable): Latitude 32.296174 Longitude -103.702441 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 19.15.17 NMAC explain type \_\_\_\_\_  
 Activity permitted under 19.15.36 NMAC explain type: \_\_\_\_\_  Other explain \_\_\_\_\_  
 Closure Report (required within 60 days of closure completion):  Recycling Facility Closure Completion Date: \_\_\_\_\_

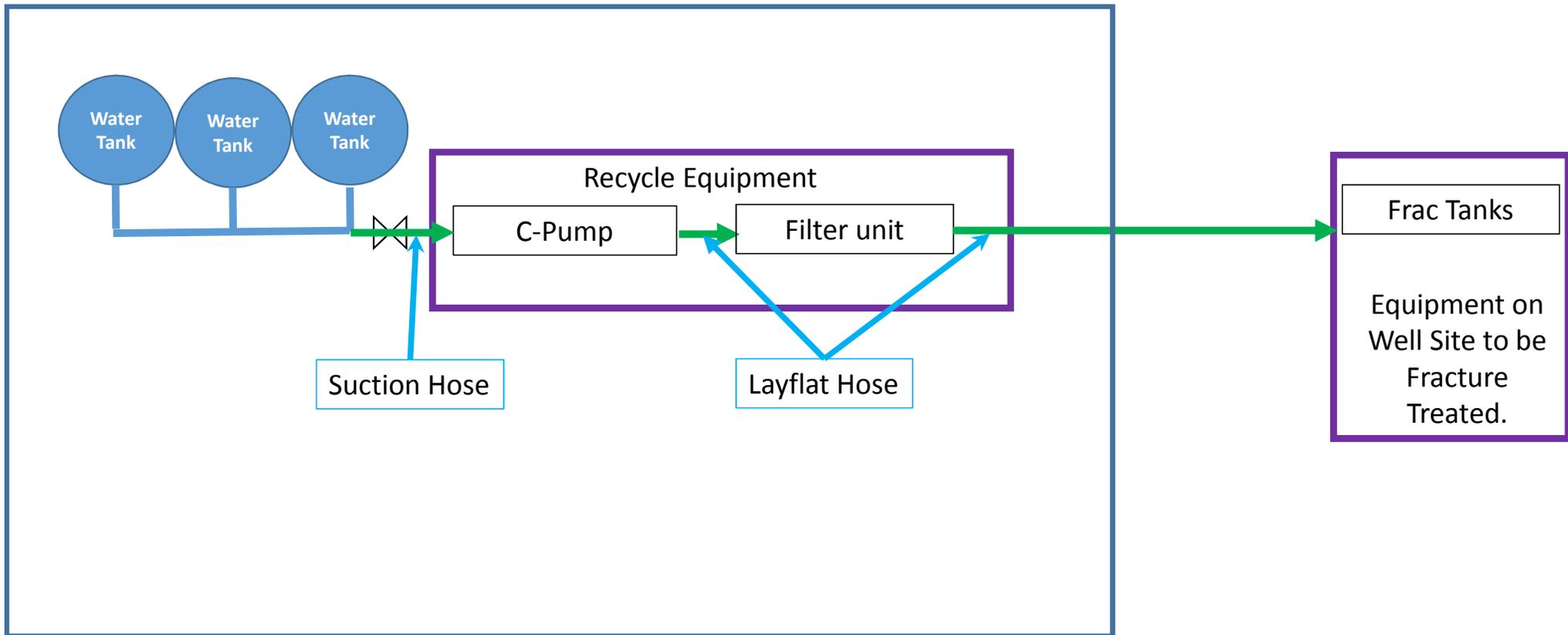
3.  
**Variations:**  
Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.  
*Check the below box only if a variance is requested:*  
 Variance(s): Requests must be submitted to the 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.**

4.  
**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): Larry Garrison Title: Sr. Engineering Tech – Water Resources  
Signature:  Date: January 13, 2020  
e-mail address: lgarrison@cimarex.com Telephone: 918-295-1700 or 918-295-1759

5.  
OCD Representative Signature:  Approval/Registration Date: August 4, 2020  
Title: Environmental Scientist OCD Permit Number: 1RF-452  
 OCD Conditions \_\_\_\_\_  
 Additional OCD Conditions on Attachment

Cimarex Energy Co.  
Produced Water Reuse Plan

# Simple Schematic of PW Reuse by Cimarex



# Process Overview

- Pull water from the water tanks only when it is needed during the fracture treatment.
- Dispose of water in SWD during time water is not needed.
- Only suspended solids will be removed.
  - Cut point will be 25 microns
- TDS will not be conditioned or removed from the water
- Lines flushed and pigged with FW before rigging down of units

# Centrifugal Pump



# Filter Unit

- Produced water is filtered with a 25-micron sock filter
- Filters unit is placed in containment
- Roll off bin to store used filters are placed in containment
- Used filters are disposed of at approved land fills



# Containments for Frac Tanks/Filter Unit

- Geomat placed on the ground to prevent punctures of the liner
- Double lined with a minimum of a 40 mil liner & 60 mil liner
- All Frac Tanks that will have Produced Water in them will have containments
- Frac tanks are removed as soon as we stop moving PW to location.



## LucasKamat, Susan, EMNRD

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**From:** Bratcher, Mike, EMNRD  
**Sent:** Tuesday, January 14, 2020 4:53 PM  
**To:** LucasKamat, Susan, EMNRD  
**Subject:** FW: C-147 Application - James 20-29 Federal Com 37H - Sec 20-23S-32E, Lea County, NM  
**Attachments:** Cimarex Energy Co Produced Water schematic - Copy.pdf; C-147 James 20-29 Fed Com 37 H.pdf

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**From:** Larry Garrison <LGarrison@cimarex.com>  
**Sent:** Monday, January 13, 2020 2:52 PM  
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