

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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-144 CLEZ
July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please 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: COG Operating LLC OGRID #: 229137
Address: One Concho Center 600 W. Illinois Ave, Midland, TX 79701
Facility or well name: Burch Keely Unit #637
API Number: 30-015-40183 OCD Permit Number: 212828
U/L or Qtr/Qtr O Section 24 Township 17S Range 29E County: EDDY
Center of Proposed Design: Latitude _____ Longitude _____ NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2.
 Closed-loop System: Subsection H of 19.15.17.11 NMAC
Operation: Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) P&A
 Above Ground Steel Tanks or Haul-off Bins

NM OIL CONSERVATION

ARTESIA DISTRICT

DEC 15 2014

3.
Signs: Subsection C of 19.15.17.11 NMAC
 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
 Signed in compliance with 19.15.3.103 NMAC

RECEIVED

4.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
 Previously Approved Design (attach copy of design) API Number: _____
 Previously Approved Operating and Maintenance Plan API Number: _____

5.
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.
Disposal Facility Name: CRI Disposal Facility Permit Number: R1966
Disposal Facility Name: GM INC Disposal Facility Permit Number: 711-019-001
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?
 Yes (If yes, please provide the information below) No
Required for impacted areas which will not be used for future service and operations:
 Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

6.
Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): _____ Title: _____
Signature: _____ Date: _____
e-mail address: _____ Telephone: _____

7. **OCD Approval:** Permit Application (including closure plan) Closure Plan (only)

OCD Representative Signature: ADade Approval Date: 12/19/14

Title: Dir. of Supervisor OCD Permit Number: 212828

8. **Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

Closure Completion Date: 11/4/14

9. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: CRI Disposal Facility Permit Number: R1966

Disposal Facility Name: GM INC Disposal Facility Permit Number: 711-019-001

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

Yes (If yes, please demonstrate compliance to the items below) No

Required for impacted areas which will not be used for future service and operations:

- Site Reclamation (Photo Documentation)
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique

10. **Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Chasity Jackson Title: Regulatory Analyst

Signature: CJackson Date: 12/11/2014

e-mail address: cjackson@concho.com Telephone: 432-686-3087

| | |
|----------------------------|----------------------|
| Fracture Date: | 10/14/2014 |
| State: | New Mexico |
| County: | Eddy |
| API Number: | 30-015-40183 |
| Operator Name: | COG Operating LLC |
| Well Name and Number: | Burch Keely Unit 637 |
| Longitude: | |
| Latitude: | |
| Long/Lat Projection: | |
| Production Type: | Oil |
| True Vertical Depth (TVD): | 4770 |
| Total Water Volume (gal): | 6,454 |

Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass) | Materials | Slurry Amount (bbl): Total Slurry Amount (Gal) | | Specific Gravity | Volume per Component (Gallons) | Total Slurry Mass (Lb) | | Maximum Ingredient Concentration in HF Fluid (% by mass) |
|------------------|---------------------|--------------------------|--|--|--|-----------------------|--|----------------|------------------|--------------------------------|--------------------------|------------|--|
| | | | | | | | Stage 1 | Total for Well | | | Mass per Component (LBS) | Mass (LBS) | |
| Water | | Carrier / Base Fluid | | 7732-18-5 | 100.00% | Water | 6,468 | 6,468 | 1.00 | 6,454 | 53,762 | 53,762 | 99.78617% |
| Sand | | Proppant | Silicon Dioxide | 14808-60-7 | 100.00% | Sand (LBS) | 0 | 0 | 2.65 | 0 | 0 | 0 | 0.00000% |
| Super DC/LC TL | Sanrol | Proppant | Silicon Dioxide | 14808-60-7 | 97.00% | Super DC/LC TLC/THS O | 0 | 0 | 2.60 | 0 | 0 | 0 | 0.00000% |
| | | | P/F Novolak Resin | 9003-35-4 | 5.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| | | | Hexamethylenetetramine | 1009-7-0 | 1.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| B-15 | Water Science T | Biocide | Tetrakis (hydroxymethyl) phosphonium sulfate | 55566-30-8 | 20.00% | B-15 | 1 | 1 | 1.09 | 1 | 2 | 9 | 0.00337% |
| | | | Water | 7732-18-5 | 80.00% | | 0 | 0 | | 0 | 7 | 0 | 0.01348% |
| FR-601 | SNF | Friction Reducer | Copolymer of acrylamide and sodium acrylate | 25987-30-8 | 100.00% | FR-601 | 6 | 6 | 1.05 | 6 | 52 | 52 | 0.09741% |
| | | | Isoparaffinic Solvent | 64742-47-8 | 100.00% | | 0 | 0 | | 0 | 52 | 0 | 0.09741% |
| | | | Water | 7732-18-5 | 100.00% | | 0 | 0 | | 0 | 52 | 0 | 0.09741% |
| | | | Nonylphenol | 9016-45-9 | 100.00% | | 0 | 0 | | 0 | 52 | 0 | 0.09741% |
| | | | Sorbitan Monooleate | 1338-43-8 | 100.00% | | 0 | 0 | | 0 | 52 | 0 | 0.09741% |
| CS-14 | Chemplex, L.C. | Clay Control | Non-hazardous salts(Choline) | Proprietary | 66.00% | CS-14 | 0 | 0 | 1.08 | 0 | 0 | 0 | 0.00000% |
| | | | Water | 7732-18-5 | 45.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| 15% Hydrochloric | Reagent | Scale Dissolver | 37% Hydrochloric Acid | 7647-01-0 | 15.00% | 15% Hydrochloric Acid | 0 | 0 | 1.0749 | 0 | 0 | 0 | 0.00000% |
| | | | Water | 7732-18-5 | 85.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| I-112 | Chemplex, L.C. | Acid Corrosion Inhibitor | Methanol | 67-56-1 | 50.00% | I-112 | 0 | 0 | 0.83 | 0 | 0 | 0 | 0.00000% |
| | | | Propargyl Alcohol | 107-19-7 | 4.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| SG-15G | PIP Technology | Polymer | Guar Gum | 9000-30-0 | 50.00% | SG-15G | 0 | 0 | 1.12 | 0 | 0 | 0 | 0.00000% |
| | | | Petroleum Distillate(Mineral Oil) | 64742-47-8 | 55.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| | | | Bentonite Clay | 14808-60-7 | 2.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| | | | Surfactant | 68439-51-0 | 2.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| XL-335 | ASK | Crosslinker | Ethylene Glycol | 107-21-1 | 25.00% | XL-335 | 0 | 0 | 1.33 | 0 | 0 | 0 | 0.00000% |
| | | | Potassium Hydroxide | 1310-58-3 | 25.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| | | | Proprietary | Proprietary | 25.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| | | | Proprietary | Proprietary | 15.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| | | | Proprietary | Proprietary | 10.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| GB-2 | Fritz Industries, I | Breaker | Ammonium Persulfate | 7727-54-0 | 100.00% | GB-2 | 0 | 0 | 1.98 | 0 | 0 | 0 | 0.00000% |
| GB-150 | Chemplex, L.C. | Breaker | Non-hazardous ingredients | NA | 100.00% | GB-150 | 0 | 0 | 1.1 | 0 | 0 | 0 | 0.00000% |
| NE-227 | CESI | Non-emulsifier | Isopropanol | 67-63-0 | 15.00% | NE-227 | 0 | 0 | 0.9723 | 0 | 0 | 0 | 0.00000% |
| | | | Methanol | 67-56-1 | 15.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| | | | Ethoxylated Nonylphenol | 9016-45-9 | 20.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| FE-4 | Chemplex, L.C. | Iron Control Additive | Citric Acid Anhydrous | 77-92-9 | 55.00% | FE-4 | 0 | 0 | 1.1833 | 0 | 0 | 0 | 0.00000% |
| | | | Water | 7732-18-5 | 55.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |
| S-222 | Chemplex, L.C. | Flouro Surfactant | Methanol | 67-56-1 | 100.00% | S-222 | 7 | 7 | 0.92 | 7 | 54 | 54 | 0.09957% |
| Superset W | Sanrol | Resin Activator | Methanol | 67-56-1 | 50.00% | Superset W | 0 | 0 | 0.91 | 0 | 0 | 0 | 0.00000% |
| | | | Poly(oxyethylene)nonylphenol ether | 9016-45-9 | 54.00% | | 0 | 0 | | 0 | 0 | 0 | 0.00000% |