

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  
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

**NM OIL CONSERVATION**

ARTESIA DISTRICT

DEC 15 2014

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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: AD DeLo Approval Date: 12/12/14

Title: D. or A. 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 identify 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: C Jackson 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 Keesly 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:

						Slurry Amount (bbl):		Slurry Amount (Gal)		Total Slurry Mass (Lb)		Total Slurry Mass (Lbs)	
						154	6,468			54,087	53,877		
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)	Materials	Stage 1	Total for Well	Specific Gravity	Volume per Component (Gallons)	Mass per Component (LBS)	Mass (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)
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 TLC	Santral	Proppant	Silicon Dioxide	14808-60-7	97.00%	Super DC/LC TLC/THS Oil	0	0	2.60	0	0	0	0.00000%
			P/F Novolak Resin	9003-35-4	5.00%			0		0	0	0	0.00000%
			Hexamethylenetetramine	1009-7-0	1.00%			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	7		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	52		0.09741%
			Water	7732-18-5	100.00%			0		0	52		0.09741%
			Nonylphenol	9016-45-9	100.00%			0		0	52		0.09741%
			Sorbitan Monooleate	1338-43-8	100.00%			0		0	52		0.09741%
CS-14	Chemplex, L.C.	Clay Control	Non-hazardous salts(Choline)		66.00%	CS-14	0	0	1.08	0	0	0	0.00000%
			Water	7732-18-5	45.00%			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		0.00000%
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		0.00000%
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		0.00000%
			Bentonite Clay	14808-60-7	2.00%			0		0	0		0.00000%
			Surfactant	68439-51-0	2.00%			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		0.00000%
			Proprietary	Proprietary	25.00%			0		0	0		0.00000%
			Proprietary	Proprietary	15.00%			0		0	0		0.00000%
			Proprietary	Proprietary	10.00%			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		0.00000%
			Ethoxylated Nonylphenol	9016-45-9	20.00%			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		0.00000%
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	Santral	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		0.00000%