

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

AMENDED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address COG Operating LLC 2208 West Main Street Artesia, NM 88210		² OGRID Number 229137	
		³ API Number 30-025-42178	
⁴ Property Code 313787	⁵ Property Name Skull Cap State	⁶ Well No 5	

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
E	32	24S	35E		2610	North	880	West	Lea

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

⁹ Pool Information

Pool Name	Pool Code
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Additional Well Information

¹¹ Work Type New Well	¹² Well Type Monitor	¹³ Cable/Rotary	¹⁴ Lease Type State	¹⁵ Ground Level Elevation 3301.0'
¹⁶ Multiple N	¹⁷ Proposed Depth 17049	¹⁸ Formation Wolfcamp	¹⁹ Contractor	²⁰ Spud Date 10/17/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

²¹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5	13.375	54.5	850'	600	
Intrmd	12.25	9.625	40	5350'	1000	
Prod	8.75	7	29	12550'	750	5150
Liner	6.125	4.5	11.6	13500'	125	12350

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 850' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cement to surface. Drill 12-1/4" hole to 5,350' with Brine, and run 9-5/8", 40# J55 and cement to surface. Drill 8-3/4" hole to 12,550' with cut brine, run 7" 29# P-110 and cement to 5,150'. Drill 6-1/8" hole to 13,500' with water-based mud, run 4-1/2" 11.6# P-110 liner from 12,350' to 13,500' and cement to 12,350.

²² Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Horn

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC if applicable.

Signature: *Mayte Reyes*

Printed name: Mayte Reyes

Title: Regulatory Analyst

E-mail Address: mreys1@concho.com

Date: 10/10/2014

Phone: 575-748-6945

OIL CONSERVATION DIVISION

Approved By: *[Signature]*

Title: Petroleum Engineer

Approved Date: 10/31/14

Expiration Date: 10/10/16

Conditions of Approval-Attached

OCT 31 2014