

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

District II
811 S. 15th 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

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

Operator Name and Address COG Operating LLC 2208 West Main Street Artesia, NM 88210		OGRID Number 229137
		API Number 30-025-42178
Property Code 313787	Property Name Skull Cap State	Well No 584

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
E	32	24S	32E		2310	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 Wildcat-Wolfcamp	Pool Code
--------------------------------------	------------------

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 13500	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	
Injurd	12.25	9.625	40	5350'	1000	
PROD Injurd	8.75	7	29	12550'	750	5150
Production						
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 cmt 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

<p>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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: <i>Mayte Reyes</i></p> <p>Printed name: Mayte Reyes Title: Regulatory Analyst E-mail Address: mreyes1@concho.com Date: 10/10/2014</p>	<p>OIL CONSERVATION DIVISION</p> <p>Approved By: <i>[Signature]</i> Title: Petroleum Engineer Approved Date: 10/10/14 Expiration Date: 10/10/16 Conditions of Approval Attached <input checked="" type="checkbox"/></p>
--	--

OCT 15 2014 | *KZ*

CONDITIONS OF APPROVAL

API #	Operator	Well name & Number
30-025-42178	COG Operating LLC	SKULL CAP STATE # 005

Applicable conditions of approval marked with XXXXXX

Administrative Orders Required

--	--

Other wells

--	--

Drilling

XXXXXXX	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

Casing

XXXXXXX	SURFACE & INTERMEDIATE(1) CASING - Cement must circulate to surface --
XXXXXXX	PRODUCTION CASING - Cement must tie back into intermediate casing --
XXXXXXX	Liner – Cement must tie back into production casing
XXXXXX	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
	South Area
XXXXXXX	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water

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) 748-1253 Fax: (575) 748-0720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1230 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-	Pool Code	Pool Name Wildcat; Wolfcamp
Property Code 313787	Property Name SKULL CAP STATE	Well Number 5M
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3301.0

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	32	24-S	35-E		2610	NORTH	880	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>2610'</p> <p>880'</p> <p>S.L.</p> <p>NAD 27 <u>SURFACE LOCATION</u> Y=428266.3 N X=790417.4 E LAT.=32.173939° N LONG.=103.394729° W</p>	<p>OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.</i></p> <p><i>Melanie Parker</i> 10/10/14 Signature Date Melanie J. Parker Printed Name mparker@concho.com E-mail Address</p>
	<p>SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>SEPTEMBER 25, 2014 Date of Survey</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>Chad L. Hargrow</i> 9/26/14 Certificate No. CHAD HARGROW 17777 W.O. # 14-886 DRAWN BY: AD</p>