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

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

1. Operator Name and Address	2. OGRID Number
COG Operating LLC 2208 West Main Street Artesia, NM 88210	229137
	3. API Number 30-025-43489

4. Property Code	5. Property Name	6. Well No
315281	Columbus Fee	23H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
B	34	25S	33E		210'	North	1340'	East	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	3	26S	33E		200'	South	1650'	East	Lea

9. Pool Information

Pool Name	Pool Code
Wildcat: Wolfcamp WC-025 G-09 S253336D; UPPER WOLFCAMP	98094

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	Oil		State	3326'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	22,444'	Wolfcamp		11/20/2016

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	13.5	10.75	45.5	1,025'	700	
Intrmd I	9.875	7.625	29.7	11,700'	1000	
Production	6.75	5.5	23	22,444'	2500	11,000

Casing/Cement Program: Additional Comments

Drill 13-1/2" hole to ~1025' w/ fresh water spud mud. Run 10-3/4" 45.5# J55 STC casing to TD and cement to surface in one stage. Drill 9-7/8" hole to ~11,700' with diesel brine emulsion. Run 7-5/8" 29.7# P110 casing to TD and cement to surface in one stage. Drill 6-3/4" vertical hole, curve & lateral to 22,444' with OBM. Run 5-1/2" 23# P110 LTC casing to TD and cement to 11,000' in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	Cameron

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: mreyes1@concho.com

Date: 11/15/2016 Phone: 575-748-6945

OIL CONSERVATION DIVISION

Approved By:

Title: Petroleum Engineer

Approved Date: 12/08/16 Expiration Date: 12/08/18

Conditions of Approval Attached

Columbus Fee 23H

Casing and Cement

String	Hole Size	Csg OD	PPF	Depth	Sx Cement	TOC
Surface	13-1/2"	10-3/4"	45.5#	1,025'	700	0'
Intermediate	9-7/8"	7-5/8"	29.7#	11,700'	1000	0'
Production	6-3/4"	5-1/2"	23#	22,444'	2500	11,000'

Well Plan

Drill 13-1/2" hole to ~1025' w/ fresh water spud mud. Run 10-3/4" 45.5# J55 STC casing to TD and cement to surface in one stage.

Drill 9-7/8" hole to ~11,700' with diesel brine emulsion. Run 7-5/8" 29.7# P110 casing to TD and cement to surface in one stage.

Drill 6-3/4" vertical hole, curve & lateral to 22,444' with OBM. Run 5-1/2" 23# P110 LTC casing to TD and cement to 11,000' in one stage.

Well Control

After setting 10-3/4" casing and installing 3000 psi casing head, NU 13-5/8" Cameron BOP. Test annular and casing to 1500 psi and other BOP equipment to 3000 psi.

After setting 7-5/8" casing and installing 5000 psi casing spool, NU 13-5/8" Cameron BOP. Test annular to 3000 psi and other BOP equipment to 5000 psi.