

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

6. Operator Name and Address COG Operating LLC 2208 West Main Street Artesia, NM 88210		7. OGRID Number 229137
8. Property Code 315757		9. API Number 30-025-43023
10. Property Name Fascinator Fee Com		11. Well No 2H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	30	24S	35E		210'	South	1980'	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
J	19	24S	35E		2310'	South	1650'	East	Lea

9. Pool Information

12. Pool Name WC-025 G-09 5243532M; LWR BONE SPRING	13. Pool Code 96403 98898
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Additional Well Information

14. Work Type New Well	15. Well Type Oil	16. Cable/Rotary	17. Lease Type State P	18. Ground Level Elevation 3318
19. Multiple N	20. Proposed Depth 19877'	21. Formation Bone Spring	22. Contractor	23. Spud Date 1/15/2016
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	20	16	75	930'	1000	
Intemd 1	13.5	10.75	45.5	5440'	1700	
Intemd 2	9.875	7.625	19.7	11873'	1450	
Production	6.75	5.5 / 5	20 / 18	19877'	1350	

Casing/Cement Program: Additional Comments

Plan to drill a 20" hole to 930' with fresh water. Run 16", 75# J-55 csg and cmt to surface. Drill a 13.5" hole to 5440' with brine, and run 10.75" 45.5# HCN80 and cement to surface. Drill a 9.875" hole to 11,973' with cut brine, and run 7.625" 29.7# HCP110 and cmt to surface. Drill a 6.75" pilot hole to 12,900' with cut brine, log and plug back with cement. Kick off and drill a 6.75" curve and lateral to 19,877' with OBM. Run 5-1/2" 20# P110 x 5" 18# P110 tapered production string and cement to surface.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	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: 1/15/2016

Phone: 575-748-6945

OIL CONSERVATION DIVISION

Approved By: *[Signature]*

Title: Petroleum Engineer

Approved Date: 01/15/16 Expiration Date: 01/15/16

Conditions of Approval Attached ** E-PERM KSG*

JAN 15 2016

CONDITIONS OF APPROVAL

API #	Operator	Well name & Number
30-025-43023	COG OPERATING LLC	COLUMBUS FEE # 002H

Applicable conditions of approval marked with **XXXXXX**

Administrative Orders Required

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Other wells

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Drilling

XXXXXX	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

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

Pits

XXXXXX	If using a pit for drilling and completions, must have an approved pit form prior to spudding the well

Completion & Production

XXXXXX	Will require a directional survey with the C-104

Stage Tool

XXXXXX	Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186
XXXXXX	If using Stage Tool on Surface casing, Stage Tool must be greater than 350' and a minimum 200 feet above surface shoe.
XXXXXX	When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

Lost Circulation

XXXXXX	Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186