

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 13, 2013

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 30-025-43180
4. Property Code 716099	5. Property Name Raspberry State Com 6. Well No 3H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	27	21S	33E		330'	South	1980'	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
C	22	21S	33E		50'	North	1980'	West	Lea

9. Pool Information

Pool Name WC-025 G-06 S213326D; : Bone Spring	Pool Code 97929
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Additional Well Information

11. Work Type New Well	12. Well Type Oil	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3698'
16. Multiple N	17. Proposed Depth 20936'	18. Formation Bone Spring	19. Contractor	20. Spud Date 4/19/2016
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	17.5	13.375	54.5	1715	1100	
Intemd	12.25	9.625	40	5420	2000	
Production	8.75	5.5	17	20936	3000	4950

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 1715' with Fresh Water. Run 13-3/8", 54.5# J-55 casing and cement to surface. 1st Intermediate - Drill 12-1/4" hole to 5420' with Brine, and run 9-5/8", 4300' of 40# J-55 plus ~1120' of 40# N/L-80 BTC and 2 stage cement to surface with DV Tool set ~100' above the reef to circulate cement to surface. If losses encountered in the Reef, will switch to fresh water through the rest of the interval to TD. Production - Drill 8-3/4" hole to 20,936' with Cut Brine/XC Poly Mud, and run 5-1/2" 17# HCP110 and cement to tie back into 1st Intermediate Casing to 4920'.

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: 4/11/2016

Phone: 575-748-6945

OIL CONSERVATION DIVISION

Approved By: *[Signature]*

Title: Petroleum Engineer

Approved Date: 04/25/16

Expiration Date: 04/25/18

Conditions of Approval Attached

APR 25 2016