

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

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

District III
1000 Rio Brazos Road, Artec, 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 COG Operating LLC 2208 West Main Street Artesia, NM 88210		² OGRID Number 229137
		³ API Number 30025 43179
⁴ Property Code 316099	⁵ Property Name Raspberry State Com	⁶ Well No 1H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	27	21S	33E		330'	South	200'	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
A	22	21S	33E		50'	North	330'	East	Lea

9. Pool Information

Pool Name	Pool Code
WC-025 G-06 S213326D; Bone Spring	97929

Additional Well Information

¹¹ Work Type New Well	¹² Well Type Oil	¹³ Cable/Rotary	¹⁴ Lease Type State	¹⁵ Ground Level Elevation 3709'
¹⁶ Multiple N	¹⁷ Proposed Depth 20900'	¹⁸ Formation Bone Spring	¹⁹ Contractor	²⁰ Spud Date 4/15/2016
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/lb	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5	13.375	54.5	1740	1100	
Intemd	12.25	9.625	40	5450	2000	
Production	8.75	5.5	17	20900	3000	4950

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 1740' with Fresh Water. Run 13-3/8", 54.5# J-55 casing and cement to surface. 1st Intermediate - Drill 12-1/4" hole to 5450' with Brine, and run 9-5/8", 4300' of 40# J-55 plus ~1150' 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 20,750' with Cut Brine/XC Poly Mud, and run 5-1/2" 17# HCP110 and cement to tie back into 1st Intermediate Casing to 4950'.

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) NMIC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMIC <input checked="" type="checkbox"/> if applicable. Signature: <i>Mayte Reyes</i> Printed name: Mayte Reyes Title: Regulatory Analyst E-mail Address: mrcycs1@concho.com Date: 4/6/2016	OIL CONSERVATION DIVISION	
	Approved By: <i>[Signature]</i>	
	Title: Petroleum Engineer	
	Approved Date: 04/25/16	Expiration Date: 04/25/16
	Conditions of Approval Attached	

APR 25 2016

Proposed Depth 20,900' MD.

Proposed Casing and Cement Program

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Production - Drill 8-3/4" hole to 20,750' with Cut Brine/XC Poly Mud, and run 5-1/2" 17# HCP110 and cement to tie back into 1st Intermediate Casing to 4950'.

22. PROPOSED BLOWOUT PREVENTION PROGRAM

DOUBLE RAM 3000 PSI WP 3000 PSI TEST PRESS CAMERON

Thanks,

Alex