

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-8720

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 COG Operating LLC 2208 West Main Street Artesia, NM 88210		2. OGRID Number 229137 3. API Number 30-025-41929
4. Property Code 39622	5. Property Name Gettysburg State Com	6. Well No 4H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
A	16	23S	34E		190	North	330	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
H	21	23S	34E		2310	North	380	East	Lea

9. Pool Information

Pool Name Antelope Ridge: Bone Spring, West	Pool Code 2209
---	--------------------------

Additional Well Information

11. Work Type New Well	12. Well Type Oil	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3406.6'
16. Multiple N	17. Proposed Depth 17560'	18. Formation Bone Spring	19. Contractor	20. Spud Date 6/20/2014
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 Weigh/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5	13.375	54.5	1250'	875	
Intemd	12.25	9.625	40	5000'	1600	
Production	8.75	5.5	17	17560'	2500	4700

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to 1250' with Fresh Water spud mud. Run 13-3/8", 54.5#, J-55 STC csg and cmt to surface in one stage. Will use 1" tubing and Class C w/ 2% CaCl2 to cement to surface if necessary. Drill 12-1/4" hole to 5000' with Brine. Run 9-5/8", 36# J-55 and 40#, N-80 and cement to surface in one stage. Drill 7-7/8" hole to Kick Off Point (appx. 9895' MD), curve and lateral with cut brine to approximately 17,560' MD/10,470' TVD. Run 5-1/2", 17#, P-110 csg to TD and cement to at least 4700' (300' overlap into 9-5/8") with two stage cement job.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

<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> Printed name: Mayte Reyes Title: Regulatory Analyst E-mail Address: mreyes1@concho.com Date: 6/13/2014 Phone: 575-748-6945</p>	<p style="text-align: center;">OIL CONSERVATION DIVISION</p> <p>Approved By: <i>[Signature]</i> Title: Approved Date: 06/19/14 Expiration Date: 06/19/16 Conditions of Approval Attached</p>
---	---

pm