

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 COG Operating LLC 2208 West Main Street Artesia, NM 88210		² OGRID Number 229137 ³ API Number 30-025-41928
⁴ Property Code 39622	⁵ Property Name Geltytsburg 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
D	16	23S	34E		190	North	330	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
E	21	23S	34E		2310	North	380	West	Lea

⁹ Pool Information

¹⁰ Pool Name Antelope Ridge Bone Spring West	¹¹ Pool Code 2209
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Additional Well Information

¹² Work Type New Well	¹³ Well Type Oil	¹⁴ Cable/Rotary 	¹⁵ Lease Type State	¹⁶ Ground Level Elevation 3430.0'
¹⁷ Multiple N	¹⁸ Proposed Depth 17506'	¹⁹ Formation Bone Spring	²⁰ Contractor 	²¹ Spud Date 6/20/2014
²² Depth to Ground water		²³ Distance from nearest fresh water well		²⁴ Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

²⁵ 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	1250'	875	
Intermd	12.25	9.625	40	5000'	1600	
Production	8.75	5.5	17	17506'	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. 9845' MD), curve and lateral with cut brine to approximately 17,506' 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.

²⁶ Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

²⁷ 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	OIL CONSERVATION DIVISION Approved By: <i>[Signature]</i> Title: _____ Approved Date: 06/19/14 Expiration Date: 06/19/16 Conditions of Approval Attached
<i>PM</i>	