

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 30-025-43378	
⁴ Property Code 314845	⁵ Property Name Iggle State Com	⁶ Well No 2H	

⁷ Surface Location

UL - Lot	N	21	Township	18S	Range	34E	Lot Idn	Feet from	210'	N/S Line	South	Feet From	1980'	E/W Line	West	County	Lea
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⁸ Proposed Bottom Hole Location

UL - Lot	K	16	Township	18S	Range	34E	Lot Idn	Feet from	2310'	N/S Line	South	Feet From	1980'	E/W Line	West	County	Lea
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⁹ Pool Information

¹⁰ Pool Name Vacuum: Bone Spring, West	¹¹ Pool Code 61910
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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 4033.8'
¹⁷ Multiple N	¹⁸ Proposed Depth 17071	¹⁹ Formation Bone Spring	²⁰ Contractor	²¹ Spud Date 8/10/2016
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	1950	1325	
Intemd	12.25	9.625	40	3400	900	
Production	8.75	5.5	17	17071	2500	2900

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~1950' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage.
 Drill 12-1/4" hole to ~3400' with saturated brine water. Run 9-5/8" 40# J55 casing to TD and cement to surface in one stage.
 Drill 8-3/4" vertical hole, curve & lateral to 17,071' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement to 2900' in one stage.

²⁶ Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	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 ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

Printed name: Mayte Reyes

Title: Regulatory Analyst

E-mail Address: mreyes1@concho.com

Date: 7/26/2016

Phone: 575-748-6945

OIL CONSERVATION DIVISION

Approved By:

Title: **Petroleum Engineer**

Approved Date: 07/27/2016

Expiration Date: 07/27/2018

Conditions of Approval Attached

Iggles State Com 2H

Casing and Cement

<u>String</u>	<u>Hole Size</u>	<u>Csg OD</u>	<u>PPF</u>	<u>Depth</u>	<u>Sx Cement</u>	<u>TOC</u>
Surface	17-1/2"	13-3/8"	54.5#	1,950'	1325	0'
Intermediate	12-1/4"	9-5/8"	40#	3,400'	900	0'
Production	8-3/4"	5-1/2"	17#	17,071'	2500	2900'

Well Plan

Drill 17-1/2" hole to ~1950' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage.

Drill 12-1/4" hole to ~3400' with saturated brine water. Run 9-5/8" 40# J55 casing to TD and cement to surface in one stage.

Drill 8-3/4" vertical hole, curve & lateral to 17,071' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement to 2900' in one stage.

Well Control

After setting 13-3/8" casing and installing 3000 psi casing head, NU 13-5/8" Cameron BOP. Test annular and casing to 1000 psi and other BOP equipment to 2000 psi.

After setting 9-5/8" casing and installing 5000 psi casing spool, NU 13-5/8" Cameron BOP. Test annular to 1500 psi and other BOP equipment to 3000 psi.