

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

SEP 13 2018
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MIN 3
SUCRF

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 Property Code 322447		⁴ API Number 70-025-45209
⁵ Property Name Huckleberry State Com		⁶ Well No 507H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	27	21S	33E		145	North	1140	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
D	15	21S	33E		200	North	330	West	Lea

9. Pool Information

Wildcat: Bone Spring	¹⁰ Pool Name WC-025 G-08 5213304D; BS	¹¹ Pool Code 97895
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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 3714.8'
¹⁷ Multiple N	¹⁸ Proposed Depth 21036'	¹⁹ Formation Bone Spring	²⁰ Contractor	²¹ Spud Date 9/25/2018
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

22. 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	1825'	1220	0'
Intemd	12.25	9.625	40	5425'	2000	0'
Production	8.75	5.5	17	21036'	3300	0'

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~1,825' w/ fresh water spud mud. Run 13-3/8" 54.5# J-55 BTC casing to TD and cement to surface in one stage.
 Drill 12-1/4" hole to ~5,425' with saturated brine. Run 9-5/8 40# J-55 BTC to 3500' and 9-5/8 40# L-80 BTC casing from 3500' to TD and cement to surface in two stages with DV/ECP 100' above reef. Drill 8-3/4" vertical hole, curve & lateral to 21,036' with cut brine.
 Run 5-1/2" 17# HCP110 BTC casing from TD to surface and cement to surface in one stage.

23. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

²⁴ 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: 9/12/2018

Phone: 575-748-6945

OIL CONSERVATION DIVISION

Approved By: *[Signature]*

Title:

Approved Date: 09/18/18

Petroleum Engineer

Expiration Date: 09/18/20

Conditions of Approval Attached

SCP Rec 9/13/18
 POTASH LETTER 9/17/18
 BLM POTASH OK 9/17/18
 SLO POTASH OK 09/18/18

Huckleberry State Com 507H

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#	1825'	1220	0'
Intermediate	12-1/4"	9-5/8"	40#	5425'	2000	0'
Production	8-3/4"	5-1/2"	17#	21036'	3300	0'

Well Plan

Drill 17-1/2" hole to ~1,825' w/ fresh water spud mud. Run 13-3/8" 54.5# J-55 BTC casing to TD and cement to surface in one stage.

Drill 12-1/4" hole to ~5,425' with saturated brine. Run 9-5/8 40# J-55 BTC to 3500' and 9-5/8 40# L-80 BTC casing from 3500' to TD and cement to surface in two stages with DV/ECP 100' above reef.

Drill 8-3/4" vertical hole, curve & lateral to 21,036' with cut brine. Run 5-1/2" 17# HCP110 BTC casing from TD to surface and cement to surface in one stage.

Well Control

<u>Type</u>	<u>Working Pressure</u>	<u>Test Pressure</u>	<u>Manufacture</u>
Double Ram	3000 psi	3000 psi	Cameron