

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, Amec, 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 APT Number 30-025-42347
⁴ Property Code 314000	⁵ Property Name Fez Fee	⁶ Well No 11H

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	9	25S	35E		480'	North	190'	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
A	9	25S	35E		380'	North	330'	East	Lea

⁹ Pool Information

¹⁰ Pool Name WC-025G-09 5253509D; Bone Spring	¹¹ Pool Code 98110
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Additional Well Information

¹² Work Type None Well	¹³ Well Type Oil	¹⁴ Cable/Rotary None	¹⁵ Lease Type P	¹⁶ Ground Level Elevation 2256.6
¹⁷ Multiple N	¹⁸ Proposed Depth 13833'	¹⁹ Formation Bone Spring	²⁰ Contractor See	²¹ Spud Date 12/28/2014
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	840'	700	0
Intemd	12.25	9.625	40	5470'	1940	0
Pilot Hole Plug 1	8.75	-	-	12650'	200	12250'
Pilot Hole Plug 2	8.75	-	-	9400'	450	8500'
Production	8.75	5.5	17	13833'	1910	5170'

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~840' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement 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 ~5470' with saturated brine water. Run 9-5/8" 40# L80 LTC casing to TD and cement to surface in one stage. Drill 8-3/4" pilot hole to 12650', log and plug back with 200 sx cement plug @ 12250' - 12650' and 450 sx cement plug @ 8500' - 9400'. Drill 8-3/4" curve and lateral to 13833' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement in one stage bringing TOC to 5170' (300' overlap).

²⁶ Proposed Blowout Prevention Program

²⁷ Type Double Ram	²⁸ Working Pressure 5000	²⁹ Test Pressure 5000	³⁰ Manufacturer Cameron
³¹ 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>		OIL CONSERVATION DIVISION	
Printed name: Mayte Reyes		Approved By: <i>[Signature]</i> Title: Petroleum Engineer	
Title: Regulatory Analyst		Approved Date: 12/22/14 Expiration Date: 12/22/16	
E-mail Address: mreyes1@concho.com			
Date: 12/22/2014	Phone: 575-748-6945	Conditions of Approval Attached See Attached	

Conditions of Approval

DEC 22 2014

Fez Fee 11H

Casing and Cement

String	Hole Size	Csg OD	PPF	Depth	Sx Cement	TOC
Surface	17-1/2"	13-3/8"	54.5#	840'	700	0'
Intermediate	12-1/4"	9-5/8"	40#	5470'	1940	0'
Pilot Hole Plug 1	8-3/4"	-	-	12650'	200	12250'
Pilot Hole Plug 2	8-3/4"	-	-	9400'	450	8500'
Production	8-3/4"	5-1/2"	17#	13833'	1910	5170'

Well Plan

Drill 17-1/2" hole to ~840' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement 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 ~5470' with saturated brine water. Run 9-5/8" 40# L80 LTC casing to TD and cement to surface in one stage.

Drill 8-3/4" pilot hole to 12650', log and plug back with 200 sx cement plug f/ 12250' – 12650' and 450 sx cement plug f/ 8500' – 9400'.

Drill 8-3/4" curve and lateral to 13833' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement in one stage bringing TOC to 5170' (300' overlap).

Well Control

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

CONDITIONS OF APPROVAL

API #	Operator	Well name & Number
30-025-42347	COG Operating LLC	Fez Fee #11H

Applicable conditions of approval marked with XXXXXX

Administrative Orders Required

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Other wells

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Drilling

XXXXXXX	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

Casing

XXXXXXX	SURFACE & INTERNEMIATE(1) CASING - Cement must circulate to surface --
XXXXXXX	PRODUCTION CASING - Cement must tie back into intermediate casing --
XXXXXXX	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
	South Area
XXXXXXX	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water