

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-8161 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 Rd., Aztec, NM 87410
Phone:(505) 334-8178 Fax:(505) 334-8170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3482

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 230677

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address COG OPERATING LLC One Concho Center Midland, TX 79701		2. OGRID Number 229137
4. Property Code 39741		3. API Number 30-025-43553
5. Property Name BOONE 16 STATE COM		6. Well No. 003H

7. Surface Location

UL - Lot	C	Section	21	Township	21S	Range	33E	Lot Idn	C	Feet From	350	N/S Line	N	Feet From	2120	E/W Line	W	County	Lea
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8. Proposed Bottom Hole Location

UL - Lot	C	Section	9	Township	21S	Range	33E	Lot Idn	C	Feet From	200	N/S Line	N	Feet From	1980	E/W Line	W	County	Lea
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9. Pool Information

WC-025 G-10 S2133280;WOLFCAMP	98033
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3753
16. Multiple N	17. Proposed Depth 22314	18. Formation Wolfcamp	19. Contractor	20. Spud Date 1/24/2017
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 Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	26	20	133	1875	2000	
Int1	17.5	13.375	68	5700	3000	
Int2	12.25	9.675	47	11200	1800	3500
Prod	8.5	5.5	23	22315	2600	10700

Casing/Cement Program: Additional Comments

Drill 26" hole to ~1875' w/ fresh water spud mud. Run 20" 133# J55 casing to TD and cement to surface in one stage. Drill 17-1/2" hole to ~5,700' with brine water. Run 13-3/8" 68# L80 casing to TD and cement to surface in two stages. Drill 12-1/4" hole to ~11,200' with cut brine water. Run 9-5/8" 47# L80 casing to TD and cement to surface in one stage. Drill 8-1/2" vertical hole, curve & lateral to 22,315' with OBM. Run 5-1/2" 23# P110 LTC casing to TD and cement to 10,700' in one stage.
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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify 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: _____ Printed Name: Electronically filed by Diane Kuykendall Title: Production Reporting Mgr Email Address: production@concho.com Date: 1/11/2017	<div style="text-align: center;">OIL CONSERVATION DIVISION</div> Approved By: Paul Kautz Title: Geologist Approved Date: 1/21/2017 Expiration Date: 1/21/2019 Conditions of Approval Attached
Phone: 432-683-7443	

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Form C-102
August 1, 2011
Permit 230677

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-43553	2. Pool Code 98033	3. Pool Name WC-025 G-10 S2133280;WOLFCAMP
4. Property Code 39741	5. Property Name BOONE 16 STATE COM	6. Well No. 003H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3753

10. Surface Location

UL - Lot C	Section 21	Township 21S	Range 33E	Lot Idn C	Feet From 350	N/S Line N	Feet From 2120	E/W Line W	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot C	Section 9	Township 21S	Range 33E	Lot Idn C	Feet From 200	N/S Line N	Feet From 1980	E/W Line W	County Lea
12. Dedicated Acres 320.00	13. Joint or Infill			14. Consolidation Code			15. Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p style="text-align: center;">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 1/11/2017</p>
	<p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Surveyed By: Chad Harcrow Date of Survey: 11/8/2016 Certificate Number: 17777</p>

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Form APD Comments

Permit 230677

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-025-43553
		Well: BOONE 16 STATE COM #003H

Created By	Comment	Comment Date
mreyes3	OIL: COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.	1/11/2017
pkautz	Well is within R-111-p potash area	1/12/2017

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Form APD Conditions

Permit 230677

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-025-43553
		Well: BOONE 16 STATE COM #003H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	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
pkautz	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
pkautz	1) SURFACE & INTERMEDIATE1 CASING - Cement must circulate to surface -- 2) INTERMEDIATE2 CASING - Cement must tie back into intermediate1 casing -- 3) PRODUCTION CASING - Cement must tie back into intermediate2 casing --
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	Operator shall notify appropriate District office when setting conductor pipe.
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of spudding a well.
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs.
pkautz	If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186
pkautz	1) Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.
pkautz	Submit Gas Capture Plan form prior to spudding or initiating recompletion operations
pkautz	POTASH AREA R_111-P ---Salt Protection String - If the cement fails to reach the surface or the bottom of the cellar, where required, the top of the cement shall be located by a temperature or other survey and additional cementing shall be done until the cement is brought to the surface. Four String Casing Program -- In accordance with R-111-P surface string, salt protection string and intermediate string shall be cemented to surface. Production string must tie back into the intermediate string