

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) 749-1283 Fax:(575) 749-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-8178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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 220958

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 313689		3. API Number 30-025-43233
5. Property Name BOBWHITE 12 STATE COM		6. Well No. 002H

7. Surface Location

UL - Lot	B	Section	12	Township	21S	Range	33E	Lot Idn	B	Feet From	190	N/S Line	N	Feet From	1980	E/W Line	E	County	Lea
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8. Proposed Bottom Hole Location

UL - Lot	O	Section	12	Township	21S	Range	33E	Lot Idn	O	Feet From	50	N/S Line	S	Feet From	1980	E/W Line	E	County	Lea
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9. Pool Information

BERRY,BONE SPRING, NORTH	5535
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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 3772
16. Multiple N	17. Proposed Depth 19128	18. Formation Bone Spring	19. Contractor	20. Spud Date 5/19/2016
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	17.5	13.375	54.5	1850	1350	
Int1	12.25	9.625	40	4500	700	
Int1	12.25	9.625	40	5700	1300	
Prod	8.75	5.5	17	19128	1750	

Casing/Cement Program: Additional Comments

Plan to drill a 17.5" hole to 1850' with fresh water. Run 13 3/8", 54.5# J-55 csg and cmt to surface. Drill a 12.25" hole to 5700' with brine, and run 9 5/8" 40# J55/L80 and cement to surface in two stages with ECP at 4037'. Drill out, kick off and drill an 8.75" curve and lateral to 19,128' with cut brine. Run 5-1/2" 17# P110 production string and cement to surface.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	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:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Diane Kuykendall	Approved By: Paul Kautz
Title: Production Reporting Mgr	Title: Geologist
Email Address: production@concho.com	Approved Date: 5/27/2016 Expiration Date: 5/27/2018
Date: 5/13/2016 Phone: 432-683-7443	Conditions of Approval Attached

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Form C-102
August 1, 2011
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WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-43233	2. Pool Code 5535	3. Pool Name BERRY,BONE SPRING, NORTH
4. Property Code 313689	5. Property Name BOBWHITE 12 STATE COM	6. Well No. 002H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3772

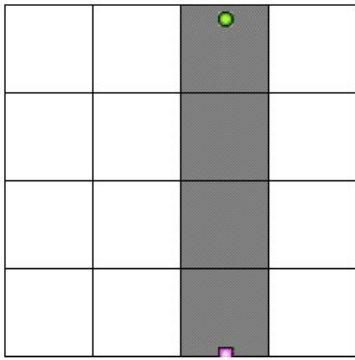
10. Surface Location

UL - Lot B	Section 12	Township 21S	Range 33E	Lot Idn B	Feet From 190	N/S Line N	Feet From 1980	E/W Line E	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot O	Section 12	Township 21S	Range 33E	Lot Idn O	Feet From 50	N/S Line S	Feet From 1980	E/W Line E	County Lea
12. Dedicated Acres 160.00			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: 5/13/2016</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: 2/11/2015 Certificate Number: 17777</p>
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Form APD Comments

Permit 220958

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-025-43233
		Well: BOBWHITE 12 STATE COM #002H
Created By	Comment	Comment Date
mreyes1	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.	5/13/2016

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Form APD Conditions

Permit 220958

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-025-43233
		Well: BOBWHITE 12 STATE COM #002H
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 & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --	
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement	
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water	
pkautz	Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186	
pkautz	Must notify OCD Hobbs Office of any water flows in the Salado Formation at 575-370-3186. Report depth and flow rate	
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	Potash Area Three String Casing Program - In accordance with R-111-P all strings shall be cemented to surface.	
pkautz	The New! Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.	