

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 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 173727

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 39914		3. API Number 30-025-41432
5. Property Name BOONE 16 STATE		6. Well No. 003H

7. Surface Location

UL - Lot N	Section 16	Township 21S	Range 33E	Lot Idn N	Feet From 190	N/S Line S	Feet From 2310	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 330	N/S Line N	Feet From 1980	E/W Line W	County Lea
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9. Pool Information

WC-025 G-08 S213304D;BONE SPRING	97895
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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 3758
16. Multiple N	17. Proposed Depth 21557	18. Formation Bone Spring	19. Contractor	20. Spud Date
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	1800	1065	
Int1	12.25	9.625	36	5370	1550	
Prod	7.875	5.5	17	21557	3125	5070

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~1800' 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 ~5370' with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5/8" 36# J55 & 40# N80 BTC casing to TD with a DV tool placed ~ 100' above the Reef. Plan to circulate cement on both stages. Drill 7-7/8" vertical hole, curve, and lateral to 21557' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement to 5070' (300' overlap) in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	T3 Energy Services

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 Title: Production Reporting Mgr Email Address: dkuykendall@conchoresources.com Date: 9/19/2013	Approved By: ELIDIO GONZALES Title: HOBBS STAFF MANAGER Approved Date: 9/26/2013 Expiration Date: 9/26/2015 Conditions of Approval Attached

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Form C-102
August 1, 2011

Permit 173727

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-41432	2. Pool Code 97895	3. Pool Name WC-025 G-08 S213304D;BONE SPRING
4. Property Code 39914	5. Property Name BOONE 16 STATE	6. Well No. 003H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3758

10. Surface Location

UL - Lot N	Section 16	Township 21S	Range 33E	Lot Idn N	Feet From 190	N/S Line S	Feet From 2310	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 330	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

	OPERATOR CERTIFICATION
	<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> E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 9/19/2013
	SURVEYOR CERTIFICATION
	<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> Surveyed By: Chad Harcrow Date of Survey: 3/7/2013 Certificate Number: 17777

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Form APD Comments

Permit 173727

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

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-41432
	Well: BOONE 16 STATE #003H

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.	9/19/2013
pkautz	Potash area R-111-P	9/20/2013
pkautz	Land p/S	9/20/2013
DMULL	BLM & SLO response that the location of this well is NOT in the LMR area or the Buffer Zone.	9/26/2013

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Form APD Conditions

Permit 173727

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-41432
	Well: BOONE 16 STATE #003H

OCD Reviewer	Condition
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	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
DMULL	Will require a directional survey with the C-104
DMULL	Spacing rule violation. Operator must follow up with Change of Status notification on other well to be shut in or abandoned