<u>District I</u> 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

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

1. Operato	r Name and Address	2. OGRID Number	
COG OF	229137		
	oncho Center nd. TX 79701	3. API Number 30-025-41200	
iviidia	iii, 1A /9/01		
4. Property Code	5. Property Name	6. Well No.	
39914	BOONE 16 STATE	001H	

7. Surface Location

7	100	1	19	7.0	difface Loc	ution	N	0.00		
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County]
P	16	218	33E	P	190	S	330	E	LEA	

O Danson J Dattom Hala I and and

15 53	35	53	0.	Proposed	n morrog	ore Locatro	п	35	
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	16	21S	33E	A	330	N	380	E	Lea

9. Pool Information

WC-025 G-08 S213304D;BONE SPRING	97895
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Additional Well Information

11. Work Type New Well	200.110 100.000.1100 100.000.100.100.100.100.100.100.100.100		14. Lesse Type State	15. Ground Level Elevation 3756
16. Multiple N	17. Proposed Depti	18. Formation Bone Spring	19. Contractor	20. Spud Date
Depth to Ground	water	Distance from nearest fresh water	r well	Distance to nearest surface water

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1800	1215	
Int1	12.25	9.625	36	5360	1600	
Prod	7.875	5.5	17	16291	1780	5060

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 ~5360' 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 16291° with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement to 5060° (300° overlap) in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Cameron
SQ			, i

best of my knowledge and belief.	nation given above is true and complete to the	OIL CONSER'	VATION DIVISION	
I further certify I have complie 19.15.14.9 (B) NMAC ⊠, if ap	d with 19.15.14.9 (A) NMAC 🛮 and/or plicable.	Approved By: ELIDIO GONZALES		
Signature:				
Printed Name: Electronicall	y filed by Diane Kuykendall	Title: HOBBS STAFF MAN	NAGER	
Title: Production Reporting	g Mgr	Approved Date: 6/4/2013	Expiration Date: 6/4/2015	
Email Address: dkuykendal	ll@conchoresources.com	The state of the s		
Date: 5/21/2013	Phone: 432-683-7443	Conditions of Approval Atta	ached	

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Phone:(505) 334-6178 Fax:(505) 334-6170

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

Santa Fe, NM 87505

Form C-102 August 1, 2011

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3	. Pool Name
30-025-41200	97895	WC-025 G-08 \$213304D;BONE \$PRING	
Property Code	5. Proper	ty Name	6. Well No.
39914	BOONE 1	6 STATE	001H
7. OGRID No.	8. Operat	or Name	9. Elevation
229137	COG OPERA	ATING LLC	3756

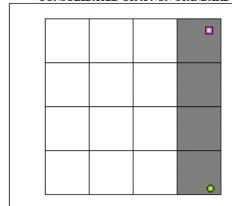
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	16	218	33E		190	S	330	E	LEA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section 16	Township 21S	Range 33E	Lot Idn A	Feet From 330	N/S Line	Feet From 380	E/W Line E	County LEA
	cated Acres	13. J	oint 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 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.

E-Signed By: Diane Kuykendall Title: Production Reporting Mgr

Date: 5/21/2013

SURVEYOR CERTIFICATION

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.

Surveyed By: Chad Harcrow Date of Survey: 2/5/2013 Certificate Number: 17777

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: BOONE 16 STATE #001H

API: 30-025-41200

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.	5/21/2013
CHERRERA	SENT POTASH LETTER TO BLM AND SLO.	5/21/2013
CHERRERA	OCD RECEIVED FORM C144 CLEZ. OCD PERMIT # P1-06259	5/22/2013
pkautz	Land p/S	5/22/2013

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: BOONE 16 STATE #001H

API: 30-025-41200

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	In order to seal off protectable water surface casing must be set 25' below the Rustler Anhydrite.
pkautz	Cement on 9 5/8 must circulate to surface. Cement on 5.5 must tie back into 9 5/8 casing.