District I 1825 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

Distance to nearest surface water

Manufacturer

Permit 173444

			APPLIC	ATION F	OR PE	RMIT	TO DRILL	,RE-	ENTER, DEEPE	EN, PLUGBA	CK, OR ADI	AZO	NE		
1. Operat	COG	ne and Address OPERATING LLC						200	800		8990	2. OGR	RID Number 229137		
		Concho Center and, TX 79701										3. API I	Number 30-015-4166	0	
4. Proper	ty Cod 4012			5. Propert	y Name SRO S	tate						6. Well	No. 012H		
							7	7. Surf	ace Location						
UL - Lot		Section	Township		Range	1-184	Lot Idn		Feet From	N/S Line	Feet From	\$2.14	E/W Line	County	
1	Р	32	2	5S	14.7	28E	571.011	P	190	S	1	660	E	17.11	Eddy
							8. Propo	sed B	ottom Hole Locatio	on					
UL - Lot		Section	Township	F	Range		Lot Idn		Feet From	N/S Line	Feet From		E/W Line	County	
	A	32	2	5S		28E		Α	330	N	9	660	E		Eddy
								9. Poo	Information						
DELAW	ARE F	RIVER:BONE SPRIN	NG.										16800		

E	Additional Well Information							
11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lesse Type State	15. Ground Level Elevation 3002				
18. Multiple N	17. Proposed Depth 12543	18. Formation Bone Spring	19. Contractor	20. Spud Date 9/24/2013				

Distance from nearest fresh water well

☑ We will be using a closed-loop system in lieu of lined pits

Type

Depth to Ground water

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sads of Cement	Estimated TOC
Surf	17.5	13.375	48	400	325	
Int1	12.25	9.625	36	2300	700	ALL LAND
Prod	7.875	5.5	17	12543	1500	2100

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 400' with Fresh Water. Run 13-3/8", 48#, H-40 csg and cmt to surface. Drill 12-1/4" hole to 2300' with Brine, and run 9-5/8", 36#, J-55 and cement to surface. Drill 7-7/8" curve and lateral with cut brine to approx 12,543' MD. Run 5-1/2", 17#, P-110 csg and cement to 2100'.

> 22. Proposed Blowout Prevention Program Working Pressure

Test Pressure

Double Ram	3000	3000	Cameron
		2.7	27
23. I hereby certify that the information given ab	ove is true and complete to the best of my	OIL CONSERVATION	ON DIVISION
knowledge and belief.	372		
I further certify I have complied with 19.15.14	.9 (A) NMAC X and/or 19.15.14.9 (B) NMAC		

knowledge and be I further certify I X, if applicable. Signature:	have complied with 19.15.14.9 (A)	NMAC ⊠ and/or 19.15.14.9 (B) NMAC			
Printed Name:	Electronically filed by Diane Kuyk	endall	Approved By:	Randy Dade	
Title:	Production Reporting Mgr		Title:	District Supervisor	
Email Address: dkuykendall@conchoresources.com			Approved Date:	9/16/2013	Expiration Date: 9/16/2015
Date: 9/16/2013 Phone: 432-683-7443			Conditions of App	oroval Attached	•

District I

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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

Permit 173444

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-015-41660	16800	DELAWARE RIVER;BONE SPRING
4. Property Code	5. Property Name	6. Well No.
40128	SRO State	012H
7. OGRID No.	8. Operator Name	9. Elevation
229137	COG OPERATING LLC	3002

10. Surface Location

				To: ouridoc	Location				112
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Р	32	258	28E	500 T 100 T	190	S	660	E	Eddy

11 Bottom Hole Location If Different From Surface

	TH Bottom Holo Ecodular in Billiot art Tolli Garlago								
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Α	32	25S	28E	Α	330	N	660	E	Eddy
12. Dedicated Ac	res		13. Joint or Infill		14. Consolidation Co	de	N	15. Order No.	
160.0	0								

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

le 32	
3	0

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: 9/16/2013

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: 7/11/2013
Certificate Number: 17777

Form APD Comments

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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Permit 173444

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-015-41660
One Concho Center	Well:
Midland, TX 79701	SRO State #012H

Created By	Comment	Comment Date
55.00 S 350 S	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.	9/16/2013
CSHAPARD	Land s/S	9/16/2013

Form APD Conditions

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Permit 173444

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-015-41660
One Concho Center	Well:
Midland, TX 79701	SRO State #012H

OCD Reviewer	Condition
	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
	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
CSHAPARD	