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** 

UL - Lot

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

Section

# 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 184168

		APPLIC	ATION FOR	PERMIT	TO DRILL, F	RE-ENTER, DEEP	EN, PLUGBA	CK, OR ADD	AZO	NE		
1. Operator Nan COO	ne and Address OPERATING LL	С			83800	2//	.2	8988	2. OGR	ID Number 229137		
	Concho Center and, TX 79701								3. APIN	Number 30-015-422	32	
4. Property Cod 4049			5. Property Na Gra	ne ham Crack	er 2 State				6. Well	No. 001H		
					7. 9	Surface Location						
UL - Lot	Section 2	Township 26	Range	28E	Lot Idn	Feet From 600	N/S Line S	Feet From 58	30	E/W Line E	County	Eddy
				1	8. Propose	ed Bottom Hole Local	tion	•		11	•	

Feet From

330

N/S Line

N

Feet From

380

E/W Line

County

Eddy

	9. Pool illioithation	
RED BLUEF BONE SPRING SOUTH		51010

Lot Idn

Additiona	I Well	Inform	nation

		Additional Well lillo	muuon		
11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2946	
16. Multiple N	17. Proposed Depth 12407	18. Formation Bone Spring	19. Contractor	20. Spud Date 4/11/2014	
Depth to Ground water		Distance from nearest fresh water we	ell	Distance to nearest surface water	

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

Township

268

Range

28E

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	425	375	
Int1	12.25	9.625	36	2600	700	
Prod	8.75	5.5	17	12407	2000	2400

### Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 425' with Fresh Water. Run 13-3/8", 48#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 2600' with Brine, and run 9-5/8", 36# J-55 and cement to surface. Drill 8-3/4" curve and lateral with cut brine to approx 12,407'MD. Run 5-1/2", 17#, P-110 csg and cement to 2,400'

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron
	and in house and accordance to the book of any	OIL CONCEDUATION	NI DRIIGION
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.			

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 ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.				OIL CONSERVATIO	N DIVISION
Signature:			5		3
Printed Name:	Electronically filed by Diane Kuyl	kendall	Approved By:	Randy Dade	
Title:	Title: Production Reporting Mgr			District Supervisor	
Email Address: dkuykendall@conchoresources.com			Approved Date:	4/8/2014	Expiration Date: 4/8/2016
Date: 4/4/2014 Phone: 432-683-7443			Conditions of Appr	oval Attached	

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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 184168

## WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 2. Pool Code 51010		3. Pool Name RED BLUFF;BONE SPRING, SOUTH
4. Property Code 40490	Property Name     Graham Cracker 2 State	6. Well No. 001H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 2946

### 10. Surface Location

Tot during Cocadon									
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Р	2	26S	28E		600	S	580	E	Eddy

### 11. Bottom Hole Location If Different From Surface

							2.0		
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Α	2	26S	28E	1	330	N	380	E	Eddy
12. Dedicated Acr	res		13. Joint or Infill		14. Consolidation Cod	de		15. Order No.	
160.00	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

	organization either ov a right to drill this we	OPERATOR CERTIFICATION  e information contained herein is true and complete to the best of my knowledge and belief, and that this was a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has Il at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling ulsory pooling order heretofore entered by the division.
	E-Signed By:	Diane Kuykendall
	Title:	Production Reporting Mgr
	Date:	4/4/2014
		SURVEYOR CERTIFICATION  e well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision rue and correct to the best of my belief.
0	Surveyed By:	Chad Harcrow
	Date of Survey:	7/12/2013
	Certificate Number:	17777

Form APD Comments

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-8161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 Dietrict III

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

Permit 184168

### **PERMIT COMMENTS**

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-015-42282
One Concho Center	Well:
Midland, TX 79701	Graham Cracker 2 State #001H

Created By	Comment	Comment Date
**************************************	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.	4/4/2014
CSHAPARD	Land s/S	4/4/2014

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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

Permit 184168

Form APD Conditions

### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-015-42282
One Concho Center	Well:
Midland, TX 79701	Graham Cracker 2 State #001H

OCD	Condition
Reviewer	
CSHAPARD	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