

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) 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 184165

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 40490		3. API Number 30-015-42283
5. Property Name Graham Cracker 2 State		6. Well No. 002H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	2	26S	28E		210	S	1700	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	2	26S	28E	2	330	N	1700	E	Eddy

9. Pool Information

RED BLUFF;BONE SPRING, SOUTH	51010
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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 2983
16. Multiple N	17. Proposed Depth 12811	18. Formation Bone Spring	19. Contractor	20. Spud Date 4/11/2014
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	425	375	
Int1	12.25	9.625	36	2600	700	
Prod	8.75	5.5	17	12811	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 12,811'MD. Run 5-1/2", 17#, P-110 csg and cement to 2,400'.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	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 ☒ and/or 19.15.14.9 (B) NMAC ☒ , if applicable. Signature: _____ Printed Name: Electronically filed by Diane Kuykendall Title: Production Reporting Mgr Email Address: dkuykendall@conchoresources.com Date: 4/4/2014	OIL CONSERVATION DIVISION Approved By: Randy Dade Title: District Supervisor Approved Date: 4/8/2014 Expiration Date: 4/8/2016 Conditions of Approval Attached
Phone: 432-683-7443	

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Form C-102
August 1, 2011
Permit 184165

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-42283	2. Pool Code 51010	3. Pool Name RED BLUFF;BONE SPRING, SOUTH
4. Property Code 40490	5. Property Name Graham Cracker 2 State	6. Well No. 002H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 2983

10. Surface Location

UL - Lot O	Section 2	Township 26S	Range 28E	Lot Idn	Feet From 210	N/S Line S	Feet From 1700	E/W Line E	County Eddy
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11. Bottom Hole Location If Different From Surface

UL - Lot B	Section 2	Township 26S	Range 28E	Lot Idn 2	Feet From 330	N/S Line N	Feet From 1700	E/W Line E	County Eddy
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

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Form APD Comments
Permit 184185

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-42283
		Well: Graham Cracker 2 State #002H
Created By	Comment	Comment Date
CSHAPARD	Land s/S	4/4/2014

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Form APD Conditions
Permit 184185

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-42283
		Well: Graham Cracker 2 State #002H
OCD Reviewer	Condition	
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	