

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

1. Operator Name and Address COG OPERATING LLC 550 W TEXAS MIDLAND , TX 79701		2. OGRID Number 229137
		3. API Number 30-025-40130
4. Property Code 38601	5. Property Name CORAZON STATE UNIT 4	6. Well No. 004H

## 7. Surface Location

UL - Lot D	Section 4	Township 21S	Range 33E	Lot Idn 5	Feet From 330	N/S Line N	Feet From 330	E/W Line W	County LEA
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## 8. Pool Information

WILDCAT:BONE SPRING	96403
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### Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3755
14. Multiple N	15. Proposed Depth 18500	16. Formation Bone Spring	17. Contractor	18. Spud Date 5/9/2011
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mls thick      Clay <input type="checkbox"/> Pit Volume:      bbls      Drilling Method:				
Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

## 19. 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	1825	1100	0
Int1	12.25	9.625	36	5500	1400	0
Prod	7.875	5.5	17	18500	1600	5300

**Casing/Cement Program: Additional Comments**

Plan to drill a 17-1/2" hole to 1825' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 5500' with Brine, and run 9-5/8", 36#, J-55 (40# f/4500' - 5500') and cement to surface. Drill 8-3/4" hole with cut brine to 11,600', run logs and plug back. Kick off and drill 8-3/4" curve then drill 7-7/8" lateral to approx 18,500' MD (11,325' TVD). Run 5-1/2", 17#, P-110 csg and cement to 5300' in 2 stages.

### Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Cameron

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	OIL CONSERVATION DIVISION	
	Approved By: Paul Kautz	
Printed Name: Electronically filed by Diane Kuykendall	Title: Geologist	
Title: Production Reporting Mgr	Approved Date: 5/6/2011	Expiration Date: 5/6/2013
Email Address: dkuykendall@conchoresources.com		
Date: 4/29/2011	Phone: 432-683-7443	

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(505) 393-6161 Fax:(505) 393-0720

**District II**  
 1301 W. Grand Ave., Artesia, NM 88210  
 Phone:(505) 748-1283 Fax:(505) 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-102  
 Permit 131005

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-40130	2. Pool Code 96403	3. Pool Name WILDCAT;BONE SPRING
4. Property Code 38601	5. Property Name CORAZON STATE UNIT 4	6. Well No. 004H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3755

**10. Surface Location**

UL - Lot D	Section 4	Township 21S	Range 33E	Lot Idn 4	Feet From 330	N/S Line N	Feet From 330	E/W Line W	County LEA
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**11. Bottom Hole Location If Different From Surface**

UL - Lot M	Section 4	Township 21S	Range 33E	Lot Idn M	Feet From 330	N/S Line S	Feet From 380	E/W Line W	County LEA
12. Dedicated Acres 239.07		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**

	<p align="center"><b>OPERATOR CERTIFICATION</b></p> <p><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></p> <p>E-Signed By: Diane Kuykendall          Title: Production Reporting Mgr          Date: 4/29/2011</p>
	<p align="center"><b>SURVEYOR CERTIFICATION</b></p> <p><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></p> <p>Surveyed By: Ronald Eidson          Date of Survey: 4/15/2011          Certificate Number: 3239</p>

## Permit Comments

Operator: COG OPERATING LLC , 229137

Well: CORAZON STATE UNIT 4 #004H

API: 30-025-40130

Created By	Comment	Comment Date
pkautz	Restricted due to potash	4/29/2011
pkautz	Land S/S	4/29/2011
pkautz	05/05/2011 Received from State Land Office, location was not in LMR and was not in Buffer Zone.	5/6/2011
pkautz	05/06/2011 Received from BLM, location was not in LMR and was not in Buffer Zone	5/6/2011