

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

**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 30-015-37757
4. Property Code 302584	5. Property Name WHITE OAK STATE	6. Well No. 013

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	23	17S	28E	P	330	S	990	E	EDDY

**8. Pool Information**

EMPIRE; GLORIETA-YESO	96210
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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 3680
14. Multiple N	15. Proposed Depth 5350	16. Formation Yeso Formation	17. Contractor	18. Spud Date 7/31/2010
Depth to Ground water 110		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 _____ miles thick Clay <input type="checkbox"/> Pit Volume: 5000 _____ 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	11	8.625	32	250	300	0
Prod	7.875	5.5	17	5350	900	0

**Casing/Cement Program: Additional Comments**

COG proposes to drill a 11" hole to 250' w/fr wtr mud system, wt 8.5, vis 28, set 8-5/8" casing & cement to surface. Drill 7-7/8" hole to 5350' w/cut brine mud system, wt 9.1, vis 29-32. Test Yeso formation. Run 5-1/2" casing & cement to surface. Note: On production string, a caliper will be run, COG will attempt to circulate cement.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

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 checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Printed Name: Electronically filed by Diane Kuykendall Title: Regulatory Analyst Email Address: dkuykendall@conchoresources.com Date: 4/5/2010	<b>OIL CONSERVATION DIVISION</b>	
	Approved By: Jacqueta Reeves	
	Title: District Geologist	
	Approved Date: 4/19/2010	Expiration Date: 4/19/2012
	Phone: 432-683-7443 Conditions of Approval Attached	

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

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Form C-102  
Permit 110612

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-37757	2. Pool Code 96210	3. Pool Name EMPIRE; GLORIETA-YESO
4. Property Code 302584	5. Property Name WHITE OAK STATE	6. Well No. 013
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3680

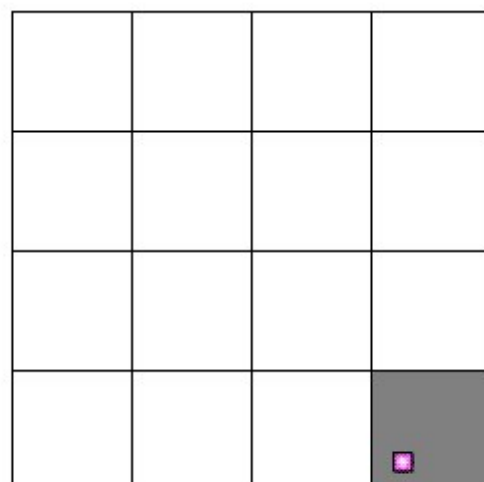
**10. Surface Location**

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

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres 40.00	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**



**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: Regulatory Analyst  
Date: 4/5/2010

**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: Ronald Eidson  
Date of Survey: 3/24/2010  
Certificate Number: 3239

## Permit Comments

Operator: COG OPERATING LLC , 229137

Well: WHITE OAK STATE #013

API: 30-015-37757

Created By	Comment	Comment Date
rodan	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	3/10/2010

## Permit Conditions of Approval

**Operator:** COG OPERATING LLC , 229137

**Well:** WHITE OAK STATE #013

**API:** 30-015-37757

OCD Reviewer	Condition
JVREEVES	BOP test must be performed by 3rd party, per District II Supervisor.