### State of New Mexico

#### Form C-101 Permit 117635

## **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

COG	tor Name and Address DPERATING LLC	OGRID Number     229137
320000000000000000000000000000000000000	50 W TEXAS AND , TX 79701	3. API Number 30-015-38074
4. Property Code         5. Property Name           302584         WHITE OAK STATE		6. Wett No. 016

### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	23	17S	28E	I	2310	S	330	E	EDDY

### 8. Pool Information

EMPIRE; GLORIETA-YESO 96210

### **Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable Rotary	12. Lesse Type State	13. Ground Level Elevation 3705
14. Multiple 15. Proposed Depth N 5350		16. Formation Yeso Formation	18. Spud Date 10/31/2010	
Depth to Ground	water	Distance from nearest fresh water > 1000	well	Distance to nearest surface water > 1000
it: Liner: Synthetic D Closed Loop Syste		Clay Pit Volume: 5000 bbls	Drilling Method: Fresh Water X Brine	Diesel/Oil-based Gas/Air

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 a 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

		Troposed Dionode Tr	Cichion 110gram	3
Γ	Type	Working Pressure	Test Pressure	Manufacturer
Т	DoubleRam	2000	2000	

I hereby certify that the information given abo of my knowledge and belief. I further certify that the drilling pit will b	1970	OIL CONSERVATION DIVISION				
NMOCD guidelines X, a general permit COCD-approved plan .		Approved By: Randy Dade				
Printed Name: Electronically filed by	Diane Kuykendall	Title: District Supervisor				
Title: Regulatory Analyst		Approved Date: 8/19/2010	Expiration Date: 8/19/2012			
Email Address: dkuykendall@concho	resources.com					
Date: 8/5/2010 Pho	ne: 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

## State of New Mexico

Form C-102 Permit 117635

# Energy, Minerals and Natural Resources Oil Conservation Division

1220 S. St Francis Dr. Santa Fe, NM 87505

### WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name		
30-015-38074	96210	EMPIRE; GLORIETA-YESO	GLORIETA-YESO	
4. Property Code	5. Property	Name 6. Wett No.		
302584	WHITE OAK	STATE 016		
7. OGRID No.	8. Operator	Name 9. Elevation		
229137	COG OPERATING LLC 3705			

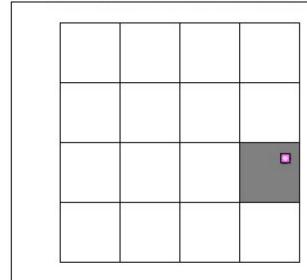
### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	23	17S	28E	In the second of	2310	S	330	E	EDDY

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

UL - Lot	Section	Township	Range	Lot	Idn	Feet From	N/S L	ine	Feet From	E/W Line	County
V.1121.001	cated Acres	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: 8/5/2010

### 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: 7/23/2010 Certificate Number: 3239

# **Permit Comments**

Operator: COG OPERATING LLC , 229137 Well: WHITE OAK STATE #016

API: 30-015-38074

Created By	Comment	Comment Date
rodom	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	7/19/2010

# **Permit Conditions of Approval**

Operator: COG OPERATING LLC , 229137 Well: WHITE OAK STATE #016

API: 30-015-38074

OCD Reviewer	Condition
Artesia	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