# State of New Mexico

#### Form C-101 Permit 117640

# **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 OI	r Name and Address PERATING LLC	OGRID Number     229137	
550 W TEXAS		3. API Number	
MIDLAND, TX 79701		30-015-38075	
4. Property Code	5. Property Name	6. Weti No.	
302584	WHITE OAK STATE	018	

## 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	23	17S	28E	H	1650	N	330	E	EDDY

## 8. Pool Information

EMPIRE; GLORIETA-YESO 96210

# Additional Well Information

	140					
9. Work Type New Well	10. Well 7 OIL	Гуре	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3708 18. Spud Date 10/31/2010	
14. Multiple N	15. Propose 535	-	16. Formation Yeso Formation	17. Contractor		
Depth to Ground 110	water		Distance from nearest fresh water v > 1000	vett	Distance to nearest surface water > 1000	
Pit: Liner: Synthetic D Closed Loop Syste	_	nils thick C		Drilling Method:	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

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given of my knowledge and belief.  I further certify that the drilling pit wil	35.0	OIL CONSERVATION DIVISION				
NMOCD guidelines X, a general permi OCD-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@cond	horesources.com	100 A - 10 part - 10 h				
Date: 8/5/2010 P	hone: 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 I

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 117640

# Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

Santa Fe, NM 87505

### WELL LOCATION AND ACREAGE DEDICATION PLAT

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1. API Number	2. Pool Code	3. Pool Na	me	
30-015-38075	96210	EMPIRE; GLORII	GLORIETA-YESO	
4. Property Code	5. Property	Name	6. Well No.	
302584	WHITE OAK STATE		018	
7. OGRID No.	8. Operator	Name	9. Elevation	
229137	COG OPERAT	ING LLC	3708	

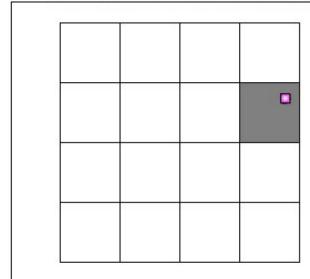
### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	23	17S	28E		1650	N	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. 100 100 100 100 100 100 100 100 100 10	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 #018

API: 30-015-38075

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 #018

API: 30-015-38075

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