District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 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 131805

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

COG OP	Name and Address ERATING LLC	OGRID Number     229137	
	W TEXAS ND , TX 79701	3. API Number 30-015-39368	
4. Property Code	5. Property Name	6. Well No.	
308204	MC STATE	004	

#### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
J	23	17S	28E	J	1525	S	1650	E	EDDY

#### 8. Pool Information

	A
EMPIRE: GLORIETA-YESO	96210

#### Additional Well Information

	TF.	A	ditional Well Inform	ation	1	
9. Work Type New Well			11. Cable/Rotary	12. Lesse Type State	13. Ground Level Elevation 3692	
14. Multiple 15. Proposed Depth N 5250		Depth	16. Formation 17. Contractor Yeso Formation		18. Spud Date 11/30/2011	
Depth to Ground water			Distance from nearest fresh water > 1000	Distance to nearest surface water > 1000		

19. Proposed Casing and Cement Program

					8	
Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17	13.375	48	250	300	0
Int1	11	8.625	24	850	400	0
Prod	7.875	5.5	17	5250	900	0

### Casing/Cement Program: Additional Comments

COG proposes to drill a 17-1/2" hole to 250' w/fr wtr mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Drill an 11" hole to 850' w/br mud system, wt 10, vis 30. Set 8-5/8" casing & cement to surface. Drill a 7-7/8" hole to 5250' w/cut brine mud system, wt 9.1, vis 29-32. Test Yeso formation. Run 5-1/2" casing & cememt to surface. Note: On production string, a caliper will be run, COG will attempt to circulate cement.

Proposed Blowout Prevention Program

	Troposed Biomode Trevention Trogram								
	Type	Working Pressure	Test Pressure	Manufacturer					
Т	DoubleRam	2000	2000						

of my knowledge and belief.	n given above is true and complete to the best g pit will be constructed according to	OIL CONSERVATION DIVISION			
NMOCD guidelines 🔀, a genera OCD-approved plan	al permit, or an (attached) alternative	Approved By: Randy Dade			
Printed Name: Electronically	filed by Diane Kuykendall	Title: District Supervisor			
Title: Production Reporting	Mgr	Approved Date: 8/31/2011	Expiration Date: 8/31/2013		
Email Address: dkuykendall	@conchoresources.com				
Date: 8/30/2011	Phone: 432-683-7443	Conditions of Approval Atta	ched		

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Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 August 1, 2011 Permit 131805

Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-39368	2. Pool Code 96210	3. Pool Name EMPIRE; GLORIETA-YESO
4. Property Code 308204	5. Property MC STA	
7. OGRID No. 229137	8. Operator COG OPERAT	

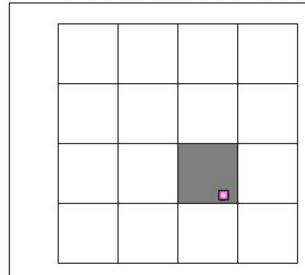
#### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
J	23	17S	28E		1525	S	1650	E	EDDY

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

UL - Lot	Section	Township	Range	Lot Id	n 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: Production Reporting Mgr

Date: 8/30/2011

#### 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: 8/10/2011 Certificate Number: 3239

# **Permit Comments**

Operator: COG OPERATING LLC , 229137 Well: MC STATE #004

API: 30-015-39368

Created By	Comment	Comment Date
kholly1	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	5/16/2011
Artesia	Land P/S	8/31/2011

# **Permit Conditions of Approval**

Operator: COG OPERATING LLC , 229137 Well: MC STATE #004

API: 30-015-39368

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
Artesia	Will require administrative order for non-standard location