District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 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

Form C-101 August 1, 2011

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

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, 1	PLUGBACK, OR ADD A ZONE
1 Operator Name and Address	2 OCPID Number

COG O	or Name and Address PERATING LLC	OGRID Number     229137
F-35-5	Concho Center and, TX 79701	3. API Number 30-015-41451
4. Property Code 39952	5. Property Name CADILLAC STATE	6. Weti No. 004

## 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	15	17S	29E	K	1650	S	1650	W	EDDY

## 8. Proposed Bottom Hole Location

			٠.	Tropose	Dottom II	ore moture	-		
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	15	17S	29E	K	1650	S	1650	W	Eddy

#### 9. Pool Information

EMPIRE; GLORIETA-YESO	96210
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#### Additional Well Information

		Auditional Well Inform	ation		
11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation	
New Well	OIL		State	3562	
16. Multiple	17. Proposed Depth	18. Formation 19. Contracto Yeso Formation		20. Spud Date	
N	5450			8/31/2013	
Depth to Ground	water	Distance from nearest fresh water > 1000	well	Distance to nearest surface water > 1000	

## 21. 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	48	300	400	0
Int1	11	8.625	24	850	500	0
Prod	7.875	5.5	17	5450	1100	0

## Casing/Cement Program: Additional Comments

COG proposes to drill a 17-1/2" hole to 300' w/fr water 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 5450' 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.

## 22. Proposed Blowout Prevention Program

Type	DoublePom 2000		Manufacturer
DoubleRam	2000	2000	1.01.01.01.01.01

best of my knowledge and belief.	on given above is true and complete to the	OIL CONSERVATION DIVISION					
I further certify I have complied w 19.15.14.9 (B) NMAC ⊠, if applic	ith 19.15.14.9 (A) NMAC 🛮 and/or able.	Approved By: Randy Dade					
Signature:	330000						
Printed Name: Electronically f	led by Diane Kuykendall	Title: District Supervisor					
Title: Production Reporting M	gr	Approved Date: 6/20/2013	Expiration Date: 6/20/2015				
Email Address: dkuykendall@	conchoresources.com						
Date: 6/13/2013	Phone: 432-683-7443	Conditions of Approval Attached					

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# State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division

August 1, 2011

Form C-102

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

1 477.31	27-16-1	2.72.437
API Number	2. Pool Code	3. Pool Name
30-015-41451	96210	EMPIRE; GLORIETA-YESO
4. Property Code	5. Property 1	iame 6. Well No.
39952	CADILLACS	TATE 004
7. OGRID No.	8. Operator 1	ame 9. Elevation
229137	COG OPERAT	NG LLC 3562

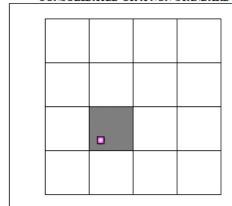
#### 10 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	15	17S	29E		1650	S	1650	W	EDDY

#### 11 Rottom Hole Location If Different From Surface

	11. Bottom Hote Estation II Billet the 110m Surface										
UL - Lot	Section	Township	Range	Lot Io	dn	Feet From	N/S L	ine	Feet From	E/W Line	County
	cated Acres	13. 3	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: 6/13/2013

#### 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: Robert Howett Date of Survey: 4/23/2013 Certificate Number: 19680

# **Permit Comments**

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

API: 30-015-41451

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.	6/13/2013
CSHAPARD	Land s/S	6/14/2013

# Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: CADILLAC STATE #004 API: 30-015-41451

OCD Reviewer	Condition	
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from th surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	