<u>District I</u> 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

August 1, 2011

Form C-101

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

1. Operato	r Name and Address	2. OGRID Number	
	ERATING LLC Concho Center	229137	
9.00	nd, TX 79701	3. API Number	
ivitota	110, 111 /5/01	30-015-40923	
4. Property Code	5. Property Name	6. Well No.	
39603	CADILLAC 15 STATE	001H	

198		- 15 - 19		7. S	urface Loc	ation	201	0 00	
UL - Lot	Section 15	Township	Range 29E	Lot Idn F	Feet From 2460	N/S Line	Feet From	E/W Line W	County

10.	8. Proposed Bottom Hole Location											
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County			
A	15	17S	29E	N	330	S	1650	W	Eddy			

9. Pool Information

EMPIRE; GLORIETA-YESO, EAST	96610
-----------------------------	-------

Additional Well Information

	1	Additional Well Inform	ation	
11. Work Type New Well			14. Lease Type State	15. Ground Level Elevation 3571
16. Multiple N	17. Proposed Depth 7009	18. Formation Yeso Formation	19. Contractor	20. Spud Date 2/28/2013
Depth to Ground water 110		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	350	400	0
Int1	12.25	9.625	40	850	500	0
Int2	8.75	7	26	4600	800	0
Prod	6.125	4.5	11.6	7009	0	0
Prod	6.125	4.5	11.6	7057	0	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 17-1/2" hole to 350' with a 8.5 ppg. 28 viscosity fresh water mud system. Set 13 3/8" casing and cement to surface. Drill a 12 1/4" hole to 850' with a 10 ppg, 30 viscosity brine water mud system. Set 9 5/8" casing and cement to surface. Drill an 8 3/4" hole to 4600'. Run open hole logs and evaluate hole. Set 7" casing and cement to surface. Drill a 6 1/8" hole to +/- 4723' and kick off and drill a 6 1/8" hole, building curve over +/- 470' of horizontal section in a southerly direction to +/- 5481' MD. Drill a 6 1/2" lateral to BHL at 5165' TVD +/- 7509 MD. Run 4 1/2" production liner in uncemented open hole lateral to +/- 4500' MD, utilizing open hole packers and liner top packer for isolation. Liner overlap only 125' to facilitate pumping. Set retrievable bridge plug at +/-4400' MD. Set hydraulic actuated whipstock at +/- 4200' MD. Mill window and drill to +/- 4219' MD.

22. Proposed Blowout Prevention Program

	22. 110 posed Dismout 110 that a 110 gram									
Type	Working Pressure	Test Pressure	Manufacturer							
DoubleRam	2000	2000	*							

best of my knowledge and beli		OIL CONSERV	ATION DIVISION	
I further certify I have comp 19.15.14.9 (B) NMAC X, if	olied with 19.15.14.9 (A) NMAC and/or applicable.	Approved By: Randy Dade		
Signature:	Addition and the second	1400		
Printed Name: Electronic	ally filed by Diane Kuykendall	Title: District Supervisor	2	
Title: Production Report	ing Mgr	Approved Date: 12/21/2012	Expiration Date: 12/21/2014	
Email Address: dkuyken	dall@conchoresources.com			
Date: 12/21/2012	Phone: 432-683-7443	Conditions of Approval Attac	ched	

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

Phone:(575) 748-1283 Fax:(575) 748-9720 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

<u>District IV</u> 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-102 August 1, 2011

Permit 159770

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-015-40923	96610	EMPIRE; GLORIETA-YESO, EAST
4. Property Code	5. Property	Name 6. Well No.
39603	CADILLAC	5 STATE 001H
7. OGRID No.	8. Operator	Name 9. Elevation
229137	COG OPERA	TING LLC 3571

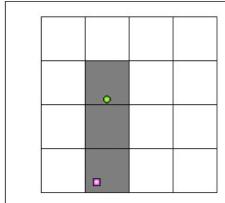
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
F	15	17S	29E		2460	N	1965	W	EDDY

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
	15	17S	29E	N	330	S	1650	W	EDDY
	cated Acres	13. J	oint 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: 12/21/2012

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: 10/12/2012 Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: CADILLAC 15 STATE #001H

API: 30-015-40923

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.	12/20/2012
kholly1	CONTINUED ADDITIONAL INFORMATION ON THE PROPOSED CASING/CEMENT PROGRAM: Drill 6 1/8" hole building curve over +/- 470" of horizontal section in a southernly direction to +/- 4981" MD. Drill a 6 1/8" lateral to BHL at 4865" TVD +/- 7009" MD. Run 4 1/2" production liner to uncemented open hole lateral to +/- 7009" MD, utilizing open hole packers. J off of liner and leave top of liner at +/- 4250" MD (+/- 30" outside of casing window.)	12/20/2012
CSHAPARD	Land s/S	12/21/2012

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: CADILLAC 15 STATE #001H API: 30-015-40923

OCD Reviewer	Condition
CSHAPARD	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