<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 IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

Santa Fe, NM 87505

1220 S. St Francis Dr.

Form C-101 August 1, 2011

APPLICATION FOR PERM	IIT TO DRILL, RE-ENTI	ER, DEEPEN, PLUGBACK.	OR ADD A ZONE

	or Name and Address PERATING LLC	2. OGRID Number	
	Concho Center	229137	
(F. 10.)	and, TX 79701	3. API Number	
11101		30-015-40924	
4. Property Code	5. Property Name	6. Well No.	
39603	CADILLAC 15 STATE	002H	

7. Surface Location

	// During Documen									
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
F	15	17S	29E	F	2460	N	2310	W	EDDY	

8. Proposed Bottom Hole Location

	COLUMN ACCOUNT ACCOUNTS										
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	2310	W	Eddy		

9. Pool Information

EMPIRE; GLORIETA-YESO, EAST	96610
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Additional Well Information

	T-	Huditional Well Inform	ation		
11. Work Type New Well	12. Well Type 13. Cable/Rotary OIL		14. Lease Type State	15. Ground Level Elevation 3577	
16. Multiple 17. Proposed Depth N 6990		18. Formation Yeso Formation			
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	4375	800	0
Prod	6.125	4.5	11.6	6990	0	0
Prod	6.125	4.5	11.6	6577	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 5164' TVD +/- 7490' 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

	zz. z reposca z remout.		
Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

 I hereby certify that the informa best of my knowledge and belief. 	tion given above is true and complete to the	OIL CONSERVATION DIVISION Approved By: Randy Dade				
I further certify I have complied 19.15.14.9 (B) NMAC 🔀, if appl	with 19.15.14.9 (A) NMAC 🛮 and/or icable.					
Signature:		1400				
Printed Name: Electronically	filed by Diane Kuykendall	Title: District Supervisor				
Title: Production Reporting l	Mgr	Approved Date: 12/21/2012	Expiration Date: 12/21/2014			
Email Address: dkuykendall(2conchoresources.com					
Date: 12/21/2012	Phone: 432-683-7443	Conditions of Approval Attached				

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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 159823

WELL LOCATION AND ACREAGE DEDICATION PLAT

***	LLE LOCATION AND ACI	LAGE DEDICATION TEAT	
1. API Number	2. Pool Code	3. Pool Name	
30-015-40924	96610	EMPIRE; GLORIETA-YESO, EAST	
4. Property Code	5. Property	Name 6. Well N	
39603	CADILLAC	15 STATE 002H	
7. OGRID No.	8. Operato	r Name 9. Elevatio	
229137	COG OPERA	TING LLC 3577	

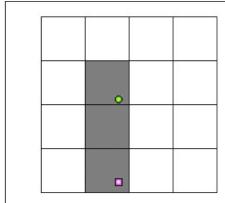
10. Surface Location

	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
1	F	15	17S	29E		2460	N	2310	W	EDDY

11. Bottom Hole Location If Different From Surface

	The Device of the Control of the Con										
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County		
N	15	17S	29E	N	330	S	2310	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: 8/15/2012 Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: CADILLAC 15 STATE #002H

API: 30-015-40924

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.	12/21/2012
kholly1	CONTINUED ADDITIONAL INFORMATION ON THE PROPOSED CASING/CEMENT PROGRAM: Drill 6 1/8" hole building curve over +/- 470" of horizontal section in a southerly direction to +/- 4981" MD. Drill a 6 1/8" lateral to BHL at 4685" TVD +/- 6990" MD. Run 4 1/2" production liner to uncemented open hole lateral to +/- 6990" MD, utilizing open hole packers. J off of liner and leave top of liner at +/- 4250" MD (+/- 30" outside of casing window.)	12/21/2012
CSHAPARD	Land s/S	12/21/2012

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: CADILLAC 15 STATE #002H API: 30-015-40924

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	