

**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  
Revised July 18, 2013  
Permit 167515

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

1. Operator Name and Address COG OPERATING LLC One Concho Center Midland, TX 79701		2. OGRID Number 229137
4. Property Code 302586		3. API Number 30-015-41634
5. Property Name WICHITA STATE		6. Well No. 004

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	16	17S	30E	L	1928	S	647	W	EDDY

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	16	17S	30E	L	1650	S	330	W	Eddy

**9. Pool Information**

LOCO HILLS; GLORIETA-YESO	96718
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3678
16. Multiple N	17. Proposed Depth 5900	18. Formation Yeso Formation	19. Contractor	20. Spud Date 10/31/2013
Depth to Ground water 110		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000

☐ We will be using a closed-loop system in lieu of lined pits

**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	425	450	0
Int1	11	8.625	32	1300	850	0
Prod	7.875	5.5	17	5900	1000	0

**Casing/Cement Program: Additional Comments**

COG proposes to drill a 17-1/2" hole to 425' w/fr water mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Drill a 11" hole to 1300' w/fr mud system, wt 10, vis 30. Run 8 5/8" casing & cement to surface. Drill a 7-7/8" hole to approx 1350' to KO Point. Directionally drill to approx 5900' TVD, 5918' MD 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 to surface.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature:	<b>OIL CONSERVATION DIVISION</b> Approved By: Randy Dade
Printed Name: Electronically filed by Diane Kuykendall	Title: District Supervisor
Title: Production Reporting Mgr	Approved Date: 8/29/2013   Expiration Date: 8/29/2015
Email Address: dkuykendall@conchoresources.com	
Date: 8/28/2013   Phone: 432-683-7443	Conditions of Approval Attached

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

Form C-102  
August 1, 2011  
Permit 167515

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-41634	2. Pool Code 96718	3. Pool Name LOCO HILLS; GLORIETA-YESO
4. Property Code 302586	5. Property Name WICHITA STATE	6. Well No. 004
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3678

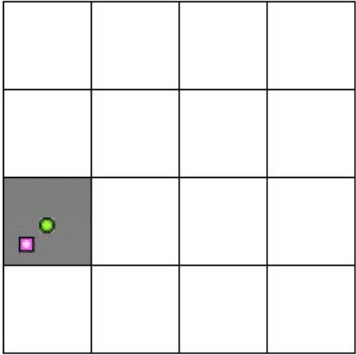
**10. Surface Location**

UL - Lot L	Section 16	Township 17S	Range 30E	Lot Idn L	Feet From 1928	N/S Line S	Feet From 647	E/W Line W	County EDDY
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**11. Bottom Hole Location If Different From Surface**

UL - Lot L	Section 16	Township 17S	Range 30E	Lot Idn L	Feet From 1650	N/S Line S	Feet From 330	E/W Line W	County EDDY
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**

	<p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></p> <p><i>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.</i></p> <p>E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 8/28/2013</p> <hr/> <p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></p> <p><i>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.</i></p> <p>Surveyed By: Robert Howett Date of Survey: 7/9/2013 Certificate Number: 19680</p>
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## Permit Comments

Operator: COG OPERATING LLC , 229137

Well: WICHITA STATE #004

API: 30-015-41634

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.	5/21/2013
kholly1		7/30/2013
kholly1	COG Operating LLC respectfully requests permission to drill this well with a closed loop system.	7/30/2013
CSHAPARD	Land s/S	8/29/2013

## Permit Conditions of Approval

**Operator:** COG OPERATING LLC , 229137

**Well:** WICHITA STATE #004

**API:** 30-015-41634

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