

District II  
1301 W. Grand Ave., Artesia, NM 88210  
Phone:(505) 748-1283 Fax:(505) 748-9720

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Permit 106156

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

1. Operator Name and Address COG OPERATING LLC 550 W TEXAS MIDLAND, TX 79701		2. OGRID Number 229137
4. Property Code 37953		3. API Number 37457
5. Property Name YALE STATE		6. Well No. 023

**7. Surface Location**

UL - Lot I	Section 2	Township 17S	Range 30E	Lot Idn I	Feet From 1650	N/S Line S	Feet From 990	E/W Line E	County EDDY ✓
---------------	--------------	-----------------	--------------	--------------	-------------------	---------------	------------------	---------------	------------------

**8. Pool Information**

LOCO HILLS; GLORIETA-YESO	96718 ✓
---------------------------	---------

**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State ✓	13. Ground Level Elevation 3767
14. Multiple N	15. Proposed Depth 6200	16. Formation Yeso Formation	17. Contractor	18. Spud Date 1/31/2010
Depth to Ground water 110		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit. Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume. 5000 bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

**19. 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	450	450	0
Intl	11	8.625	24	1350	500	0
Prod	7.875	5.5	17	6200	900	0

**Casing/Cement Program: Additional Comments**

COG proposes to drill a 17-1/2" hole to 450' w/fr wtr mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Drill an 11" hole to 1350' w/br mud system, wt 10, vis 30. Set 8-5/8" casing & cement to surface. Drill 7-7/8" hole to 6200' 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.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed Name: Electronically filed by Diane Kuykendall

Title: Regulatory Analyst

Email Address: dkuykendall@conchoresources.com

Date: 12/14/2009

Phone: 432-683-7443

**OIL CONSERVATION DIVISION**

Approved By:

Title:

Approved Date:

Expiration Date:

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-102  
 Permit 106156

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number	2. Pool Code 96718	3. Pool Name LOCO HILLS; GLORIETA-YESO
4. Property Code	5. Property Name YALE STATE	6. Well No 023
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3767

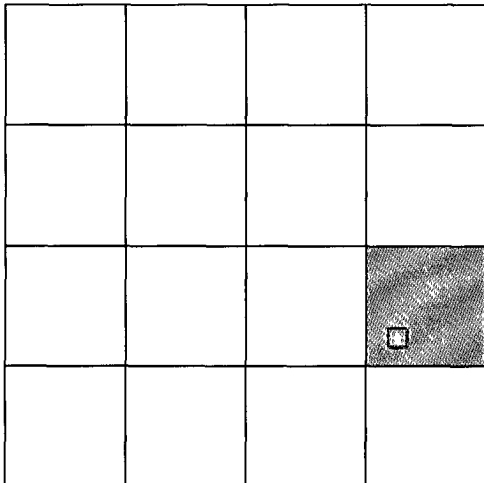
**10. Surface Location**

UL - Lot I	Section 2	Township 17S	Range 30E	Lot Idn	Feet From 1650	N/S Line S	Feet From 990	E/W Line E	County 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
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: Regulatory Analyst        Date: 12/14/2009</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: Ronald Eidson        Date of Survey: 12/9/2009        Certificate Number: 3239</p>
---	---

## Permit Comments

**Operator:** COG OPERATING LLC , 229137

**Well:** YALE STATE #023

**API:**

Created By	Comment	Comment Date
rodsm	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	12/3/2009