

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

**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 36826		3. API Number 30-015-37420
5. Property Name TEX-MACK		6. Well No. 240

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
F	2	17S	31E	F	1650	N	1565	W	EDDY

**8. Pool Information**

FREN;GLORIETA-YESO, EAST	97213
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**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 4002
14. Multiple N	15. Proposed Depth 7000	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	475	500	0
Int1	11	8.625	32	1800	550	0
Prod	7.875	5.5	17	7000	900	0

**Casing/Cement Program: Additional Comments**

COG proposes to drill a 17-1/2" hole to 475' w/fr wtr mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Drill an 11" hole to 1800' w/br mud system, wt 10, vis 30. Set 8-5/8" casing & cement to surface. Drill 7-7/8" hole to 7000' 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 <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Electronically filed by Diane Kuykendall	Approved By: Jacqueta Reeves	
Title: Regulatory Analyst	Title: District Geologist	
Email Address: dkuykendall@conchoresources.com	Approved Date: 12/15/2009   Expiration Date: 12/15/2011	
Date: 12/2/2009	Phone: 432-683-7443	

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(505) 393-6161 Fax:(505) 393-0720

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

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Form C-102  
Permit 104607

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-37420	2. Pool Code 97213	3. Pool Name FREN;GLORIETA-YESO, EAST
4. Property Code 36826	5. Property Name TEX-MACK	6. Well No. 240
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 4002

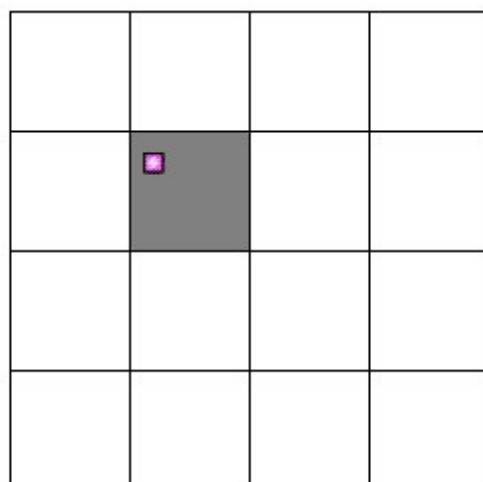
**10. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
F	2	17S	31E		1650	N	1565	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
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**



**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: Regulatory Analyst  
Date: 12/2/2009

**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: 11/20/2009  
Certificate Number: 3239

## Permit Comments

**Operator:** COG OPERATING LLC , 229137

**Well:** TEX-MACK #240

**API:** 30-015-37420

Created By	Comment	Comment Date
rodan	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	10/28/2009