

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 30-015-37104
5. Property Name TEX-MACK		6. Well No. 211H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	2	17S	31E	4	430	N	660	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 4006
14. Multiple N	15. Proposed Depth 8000	16. Formation Yeso Formation	17. Contractor	18. Spud Date 8/31/2009
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 _____ miles 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	12.25	9.625	40	650	550	0
Int1	8.75	7	26	4700	650	0
Prod	6.25	4.5	11.6	8000	0	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 12-1/4" hole to 650' w/fr water mud system, wt 8.5, vis 28, set 9-5/8" casing & cement to surface. Drill a 8-3/4" hole to 4700' w/fr mud system, wt 10, vis 30, set 7" casing & cement to surface. Drill a 6-1/4" hole to 8000' w/cut brine mud system, wt 9.1, vis 29-32. Log pilot hole. Spot cement KO plug from 8000' to 4700'. KO 6-1/4" hole @ 4887', building curve over +/- 750' to horizontal @ 5632' TVD. Drill horizontal in southerly direction for +/- 2820' lateral to 7979' MD. Run 4-1/2" liner & complete w/external casing packers in the open hole.

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"/> .	OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Diane Kuykendall	Approved By: Jacqueta Reeves	
Title: Regulatory Analyst	Title: District Geologist	
Email Address: dkuykendall@conchoresources.com	Approved Date: 5/28/2009	Expiration Date: 5/28/2011
Date: 5/20/2009	Phone: 432-683-7443	

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 1625 N. French Dr., Hobbs, NM 88240
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District III
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District IV
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Form C-102
 Permit 93314

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-37104	2. Pool Code 97213	3. Pool Name FREN, GLORIETA-YESO, EAST
4. Property Code 36826	5. Property Name TEX-MACK	6. Well No. 211H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 4006

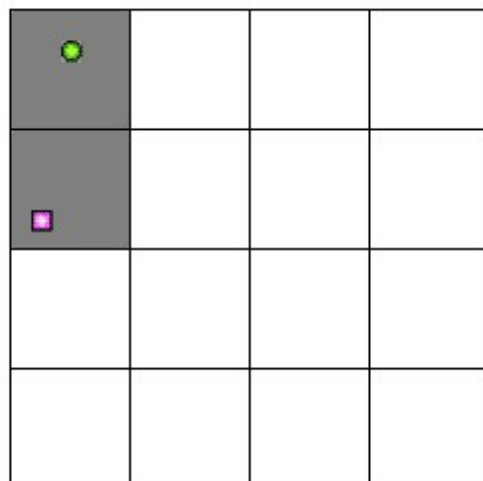
10. Surface Location

UL - Lot D	Section 2	Township 17S	Range 31E	Lot Idn 4	Feet From 430	N/S Line N	Feet From 660	E/W Line W	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot E	Section 2	Township 17S	Range 31E	Lot Idn E	Feet From 2310	N/S Line N	Feet From 330	E/W Line W	County EDDY
12. Dedicated Acres 79.90		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: 5/20/2009

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: 5/12/2009

Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: TEX-MACK #211H

API: 30-015-37104

Created By	Comment	Comment Date
rodom	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	4/9/2009