

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

Form C-101
Permit 67792

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 302587		3 API Number 30-015-36351
5. Property Name WILLOW STATE		6 Well No 009

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	16	17S	31E	O	740	S	2350	E	EDDY

8. Pool Information

FREN; GLORIETA-YESO	26770
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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 3804
14. Multiple N	15. Proposed Depth	16. Formation Yeso Formation	17. Contractor	18. Spud Date 6/10/2008
Depth to Ground water 110		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mls thick Clay <input type="checkbox"/> Pit Volume. bbls Drilling Method: Closed Loop System <input checked="" type="checkbox"/> Fresh Water <input 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	500	0
Intl	11	8.625	32	1620	800	0
Prod	7.875	5.5	17	6500	1200	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 17-1/2" hole to 450' w/fr water mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Drill an 11" hole to 1620' w/fr mud system, wt 10, vis 30, set 8-5/8" casing & cement to surface. Drill a 7-7/8" hole to 6500' w/cut brine mud system, wt 8.7, 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.

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 NMOC guidelines <input 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: Tim Gum	
Title: Regulatory Analyst	Title: District Supervisor	
Email Address: dkuykendall@conchoresources.com	Approved Date: 6/4/2008	Expiration Date: 6/4/2010
Date: 6/2/2008	Phone: 432-683-7443	

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 67792

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-36351	2. Pool Code 26770	3. Pool Name FREN; GLORIETA-YESO
4. Property Code 302587	5. Property Name WILLOW STATE	6. Well No. 009
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3804

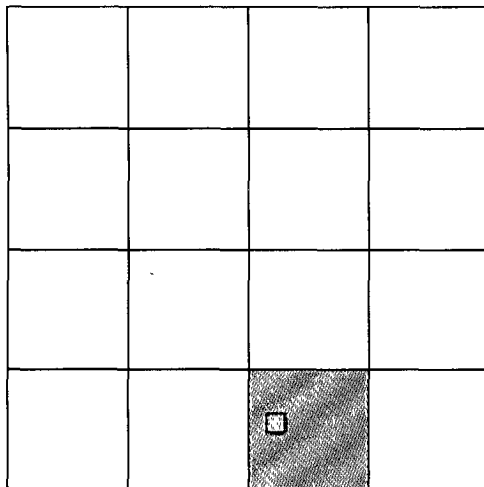
10. Surface Location

UL - Lot O	Section 16	Township 17S	Range 31E	Lot Idn	Feet From 740	N/S Line S	Feet From 2350	E/W Line E	County EDDY
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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: 6/2/2008

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: 3/6/2008

Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: WILLOW STATE #009

API:

Created By	Comment	Comment Date
PEDWARDS	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required	1/16/2008
PEDWARDS	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	1/16/2008
PEDWARDS	NSL5824 approved 5-20-08	5/27/2008
TGUM	NOTE: NEW PIT RULE 19.15.17	6/4/2008