

**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 302497		3. API Number 30-015-36057
5. Property Name G J WEST COOP UNIT		6. Well No. 185

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	22	17S	29E	B	660	N	1650	E	EDDY

**8. Pool Information**

GJ,7RVS-QN-GB-GLORIETA-YESO	97558
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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 3654
14. Multiple N	15. Proposed Depth 5450	16. Formation Yeso Formation	17. Contractor	18. Spud Date 3/20/2008
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 type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input checked="" 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	300	350	0
Int1	12.25	8.625	24	850	1000	0
Prod	7.875	5.5	17	5450	1700	0

**Casing/Cement Program: Additional Comments**

COG proposes to drill 17-1/2" hole to 300' w/fr water mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Dr 12-1/4" hole to 850' w/fr mud system, wt 10, vis 30, set 8-5/8" casing & cement to surface. Directionally dr 7-7/8" hole to 5450' 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.

**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 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: Bryan Arrant	
Title: Regulatory Analyst	Title: Geologist	
Email Address: dkuykendall@conchoresources.com	Approved Date: 1/22/2008	Expiration Date: 1/22/2010
Date: 1/14/2008	Phone: 432-683-7443	Conditions of Approval Attached

**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 67144

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-36057	2. Pool Code 97558	3. Pool Name GJ;RV5-QN-GB-GLORIETA-YESO
4. Property Code 302497	5. Property Name G J WEST COOP UNIT	6. Well No. 185
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3654

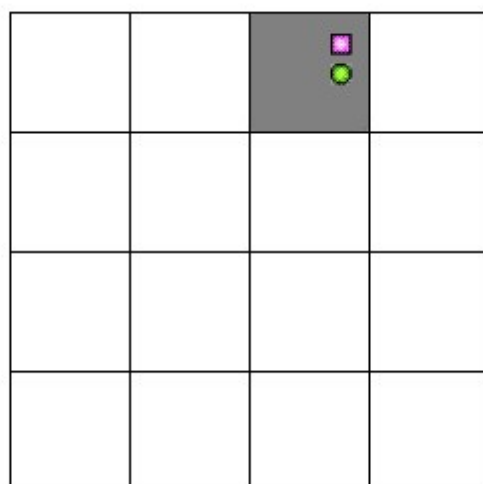
**10. Surface Location**

UL - Lot B	Section 22	Township 17S	Range 29E	Lot Idn	Feet From 660	N/S Line N	Feet From 1650	E/W Line E	County EDDY
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**11. Bottom Hole Location If Different From Surface**

UL - Lot B	Section 22	Township 17S	Range 29E	Lot Idn B	Feet From 330	N/S Line N	Feet From 1650	E/W Line E	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**



**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: 1/14/2008

**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: 12/19/2007

Certificate Number: 3239

## Permit Comments

Operator: COG OPERATING LLC , 229137

Well: G J WEST COOP UNIT #185

API: 30-015-36057

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.	1/8/2008

# Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: G J WEST COOP UNIT #185

API: 30-015-36057

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	Will require a directional survey with the C-104
BArrant	As noted, operator to drill surface hole w/fresh water mud.
BArrant	Operator to set surface casing above the Salado.