

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
		3. API Number 30-015-35985
4. Property Code 302497	5. Property Name G J WEST COOP UNIT	6. Well No. 178

7. Surface Location

UL - Lot H	Section 16	Township 17S	Range 29E	Lot Idn H	Feet From 1650	N/S Line N	Feet From 330	E/W Line E	County EDDY
---------------	---------------	-----------------	--------------	--------------	-------------------	---------------	------------------	---------------	----------------

8. Pool Information

GJ,7RVS-QN-GB-GLORIETA-YESO	97558
-----------------------------	-------

Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3558
14. Multiple N	15. Proposed Depth 5450	16. Formation Yeso Formation	17. Contractor	18. Spud Date 2/15/2008
Depth to Ground water 110		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic ☒ 12 miles thick Clay ☐ Pit Volume: 5000 bbls Drilling Method: Closed Loop System ☐ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☒				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	32	300	350	0
Prod	7.875	5.5	17	5450	1200	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 12-1/4" hole to 300', set 8-5/8" casing & cement to surface. Drill a 7-7/8" hole to 5450'. 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 NMOCB 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: 12/10/2007 Phone: 432-683-7443	OIL CONSERVATION DIVISION	
	Approved By: Bryan Arrant	
	Title: Geologist	
	Approved Date: 12/12/2007 Expiration Date: 12/12/2008	
	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

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 65729

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-35985	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. 178
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3558

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	16	17S	29E		1650	N	330	E	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>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> E-Signed By: Diane Kuykendall Title: Regulatory Analyst Date: 12/10/2007
	SURVEYOR CERTIFICATION <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> Surveyed By: Ronald Eidson Date of Survey: 11/19/2007 Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: G J WEST COOP UNIT #178

API: 30-015-35985

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.	12/10/2007

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: G J WEST COOP UNIT #178

API: 30-015-35985

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	As noted, operator to drill surface hole w/fresh water mud.
BArrant	Operator to set surface casing above the Salado.