State of New Mexico

Form C-101 Permit 63061

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

ATTRICATION	SKILIGHII TO BRIBE, RE-ENTER, BEET L	II, I LOGDACK, OK ADD A ZONE
	1. Operator Name and Address	2. OGRID Number
	COG OPERATING LLC	229137
	550 W TEXAS MIDLAND , TX 79701	3. API Number
	111111111111111111111111111111111111111	30-015-35876
4. Property Code	5. Property Name	6. Well No.
302471	CHOCTAW STATE	002

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	16	17S	31E	Α	330	N	990	E	EDDY

8. Pool Information

FREN; GLORIETA-YESO 2677

Additional Well Information

	V(1		. Million III II III III III III III III III II	2011	10.00
9. Work Type New Well	2000	10. Well Type 11. Cable/Rotary 12. Lease Type OIL State		13. Ground Level Elevation 3868	
14. Multiple N	8,000,000	osed Depth 600	16. Formation Yeso Formation	17. Contractor	18. Spud Date
Depth to Ground water Distance from nearest fresh water well 115 > 1000				11	Distance to nearest surface water > 1000
Pit: Liner: Synthetic 🗙 Closed Loop System	_	mils thick		orilling Method: Tresh Water Brine 1	Diesel/Oil-based 🗆 Gas/Air 🗙

19. Proposed Casing and Cement Program

					-	
Туре	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	450	500	0
Int1	12.25	8.625	32	1620	800	0
Prod	7.875	5.5	17	6600	1200	0

Casing/Cement Program: Additional Comments

COG Operating proposes to drill a 17 1/2 hole to 450 w/fr wtr mud system, wt 8.5, vis 28.Run 13 3/8 casing and cement. Drill a 12 1/4 hole to 1620 w/brine mud system, wt10, vis 30.Run 8 5/8 casing and cement. Drill a 7 7/8 hole to 6600 w/cut brine mud system, wt 9.1, vis 29-32.Test Yeso formation, run 5 1/2 casing and cement. Note: On production string, a caliper will be run and COG will attempt to circulate cement.

Proposed Blowout Prevention Program

Туре	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	OIL CONSERVATION DIVISION Approved By: Bryan Arrant				
NMOCD guidelines X , a general permit Γ , or an (attached) alternative OCD-approved plan Γ .					
Printed Name: Electronically filed by Diane Kuykendall	Title: Geologist				
Title: Regulatory Analyst	Approved Date: 10/22/2007 Expiration Date: 10/22/2008				
Email Address: dkuykendall@conchoresources.com					
Date: 10/22/2007 Phone: 432-685-4372	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

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u>

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico

Form C-102 Permit 63061

Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

	ELL LOCATION AND ACICE	NOE DEDICATION TEAT
1. API Number	2. Pool Code	3. Pool Name
30-015-35876	26770	FREN; GLORIETA-YESO
4. Property Code	5. Property N	ame 6. Well No.
302471	CHOCTAW S	TATE 002
7. OGRID No.	8. Operator N	ame 9. Elevation
229137	COG OPERATI	NG LLC 3868

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	16	17S	31E		330	N	990	E	EDDY

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	T	ownship	Range	Lot	Idn	Feet From	N/S L	ine	Feet From	E/W Line	County
1075170	ated Acres		13. 1	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

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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: 10/22/2007

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: Gary Jones
Date of Survey: 10/10/2007
Certificate Number: 7977

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: CHOCTAW STATE #002

30-015-35876 API:

Created By	Comment	Comment Date
kcarrillo	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	10/22/2007

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: CHOCTAW STATE #002

30-015-35876 API:

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	Operator to set surface casing in the anhydrite section of the Rustler formation. Please refer to offset geology for more information.
BArrant	As noted, operator to drill surface hole w/fresh water mud.