

**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 30-015-35261
4. Property Code 302569	5. Property Name STATE S-19	6. Well No. 029

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	19	17S	29E	N	1190	S	1242	W	EDDY

**8. Pool Information**

EMPIRE; YESO	96210
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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 3655
14. Multiple N	15. Proposed Depth 5500	16. Formation Yeso Formation	17. Contractor	18. Spud Date 12/1/2006
Depth to Ground water 115		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: 3000 _____ 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	300	0
Int1	12.25	8.625	24	800	450	0
Prod	7.875	5.5	17	5500	1100	0

**Casing/Cement Program: Additional Comments**

COG proposes to drill a 17 1/2 hole to 300', run 13 3/8 casing and cement. Drill a 12 1/4 hole to 800', run 8 5/8 casing and cement. Drill a 7 7/8 hole to 5500 test yeso formation, run 5 1/2 casing and cement. Note: On production string a fluid caliper will be run and will figure cement with 25% excess, 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. <b>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"/>.</b>	<b>OIL CONSERVATION DIVISION</b>	
	Approved By: Bryan Arrant	
	Title: Geologist	
	Title: Regulatory Analyst	Approved Date: 12/1/2006   Expiration Date: 12/1/2007
	Email Address: dkuykendall@conchoresources.com	
Date: 11/27/2006	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

**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 42323

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-35261	2. Pool Code 96210	3. Pool Name EMPIRE; YESO
4. Property Code 302569	5. Property Name STATE S-19	6. Well No. 029
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3655

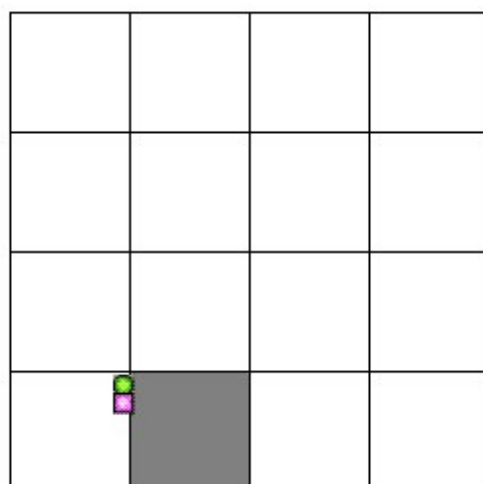
**10. Surface Location**

UL - Lot N	Section 19	Township 17S	Range 29E	Lot Idn	Feet From 1190	N/S Line S	Feet From 1242	E/W Line W	County EDDY
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**11. Bottom Hole Location If Different From Surface**

UL - Lot N	Section 19	Township 17S	Range 29E	Lot Idn N	Feet From 990	N/S Line S	Feet From 1242	E/W Line W	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: 11/27/2006

**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 Eidson  
 Date of Survey: 11/9/2006  
 Certificate Number: 12641

## Permit Comments

Operator: COG OPERATING LLC , 229137

Well: STATE S-19 #029

API: 30-015-35261

Created By	Comment	Comment Date
JSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	11/27/2006

# Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: STATE S-19 #029

API: 30-015-35261

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 with fresh water mud.
BArrant	Operator to submit directional survey plan before spudding well.