State of New Mexico

Form C-101 Permit 119836

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

COGO	or Name and Address PERATING LLC	2. OGRID Number 229137
3000 CO 1000 C	0 W TEXAS AND , TX 79701	3. API Number 30-015-38264
4. Property Code 37882	5. Property Name FIRECRACKER STATE	6. Wett No. 007

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	14	17S	28E	P	1090	S	1125	E	EDDY

8. Pool Information

EMPIRE; GLORIETA-YESO 96210

Additional Well Information

	501				
9. Work Type New Well	10. Wett Type OIL	11. Cable/Rotary	12. Lesse Type State	13. Ground Level Elevation 3634	
14. Multiple N	15. Proposed Dept 5250	h 16. Formation Yeso Formation	17. Contractor	18. Spud Date 11/30/2010	
Depth to Ground	water	Distance from nearest fresh water > 1000	well	Distance to nearest surface water > 1000	
Pit: Liner: Synthetic Closed Loop Syste		ck Clay Pit Volume: 5000 bbls	Drilling Method: Fresh Water X 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	11	8.625	32	250	300	0
Prod	7.875	5.5	17	5250	900	0

Casing/Cement Program: Additional Comments

COG proposes to drill an 11" hole to 250' w/fr wtr mud system, wt 8.5, vis 28, set 8-5/8" casing & cement to surface. Drill 7-7/8" hole to 5250' 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 cement.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given abov of my knowledge and belief. I further certify that the drilling pit will be	35.4	OIL CONSERVATION DIVISION			
NMOCD guidelines X, a general permit COCD-approved plan		Approved By: Randy Dade			
Printed Name: Electronically filed by I	Diane Kuykendall	Title: District Supervisor			
Title: Regulatory Analyst		Approved Date: 11/15/2010	Expiration Date: 11/15/2012		
Email Address: dkuykendall@conchor	esources.com	14.07 S. S. Paris II. (14.14)			
Date: 9/24/2010 Phor	ne: 432-683-7443	Conditions of Approval Attac	ched		

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

Form C-102 Permit 119836

Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

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1. API Number	2. Pool Code		3. Pool Name	
30-015-38264	96210 EMPIRE		GLORIETA-YESO	
4. Property Code	5. Property	Name	6. Wett No.	
37882	FIRECRACKE	R STATE	007	
7. OGRID No.	8. Operator	Name	9. Elevation	
229137	COG OPERAT	ING LLC	3634	

10. Surface Location

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	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	P	14	17S	28E	1.1.	1090	S	1125	E	EDDY

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot	Idn	Feet From	N/S L	ine	Feet From	E/W Line	County
2.000	cated Acres	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

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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: 9/24/2010

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: 9/14/2010 Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: FIRECRACKER STATE #007

API: 30-015-38264

Created By	Comment	Comment Date
rodom	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	9/7/2010
Artesia	requires NSL	9/30/2010
Artesia	NSL-6279	11/15/2010

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: FIRECRACKER STATE #007

API: 30-015-38264

OCD Reviewer	Condition
Artesia	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string