State of New Mexico

Form C-101 Permit 113706

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

COG OF	r Name and Address PERATING LLC	2. OGRID Number 229137		
	W TEXAS ND, TX 79701	3. API Number 30-015-37867		
4. Property Code 38113	5. Property Name LEMONADE STATE	6. Wett No. 002		

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	24	17S	28E	E	1650	N	990	W	EDDY

8. Pool Information

EMPIRE; GLORIETA-YESO 96210

Additional Well Information

	50.1	-	additional it car amount		
9. Work Type New Well	10. Wett Ty OIL	pe 11. Cable/Rotary		12. Lesse Type State	13. Ground Level Elevation 3703
14. Multiple N	15. Proposed 5350	1000000	16. Formation 17. Contr. Yeso Formation		18. Spud Date 8/31/2010
Depth to Ground water 110			Distance from nearest fresh water > 1000	er well	Distance to nearest surface water > 1000
Pit: Liner: Synthetic D Closed Loop Syste	_	ls thick Clay	Pit Volume: 5000 bb	ls Drilling Method: Fresh Water X Brine I	Diesel/Oil-based Gas/Air

19. Proposed Casing and Cement Program

т	TT 4 0:	a . =	Casing Weight/ft	Cui Du	0.1.50	F .:
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	5350	900	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 11" hole to 250' w/fr wtr mud system, wt 8.5, vis 28, set 8-5/8" casing & cement to surface. Drill a 7-7/8" hole to 5350' 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

		Troposcu Dionout Tr	evention i rogram	3
Γ	Type	Working Pressure	Test Pressure	Manufacturer
F	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					
NMOCD guidelines X , a general permit Γ , or an (attached) alternative OCD-approved plan Γ .	Approved By: Randy Dade					
Printed Name: Electronically filed by Diane Kuykendall	Title: District Supervisor					
Title: Regulatory Analyst	Approved Date: 6/4/2010	Expiration Date: 6/4/2012				
Email Address: dkuykendall@conchoresources.com		200000000000000000000000000000000000000				
Date: 5/20/2010 Phone: 432-683-7443						

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 113706

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

Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Nan	ne
30-015-37867	96210	EMPIRE; GLORIETA-YES	
4. Property Code	5. Property	Name	6. Well No.
38113	LEMONADE STATE		002
7. OGRID No.	8. Operator Name		9. Elevation
229137	COG OPERAT	TING LLC	3703

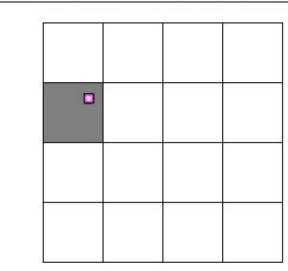
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	24	17S	28E		1650	N	990	W	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
V. 100 100 100 100 100 100 100 100 100 10	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



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: 5/20/2010

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: Gary Eidson Date of Survey: 5/11/2010 Certificate Number: 12641

Permit Comments

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

API: 30-015-37867

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.	5/7/2010