District I 1625 N. French Dr., Hobbs, NM 88240

Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 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-101 August 1, 2011

Permit 143564

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operato	or Name and Address	2. OGRID Number	
	PERATING LLC W TEXAS	229137	
10.00 (1.00 (ND, TX 79701	3. API Number	
0871737		30-015-40410	
4. Property Code	5. Property Name	6. Wett No.	
39213	BIG GIRL 31 STATE		

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	31	17S	28E	4	615	S	10	W	EDDY

8. Pool Information

RED LAKE; GLORIETA YESO, NORTHEAST

96836

Additional Well Information

		Additional Well Inform	ation		
9. Work Type New Well	10. Weti Type OIL	11. Cable/Rotary	12. Lesse Type State	13. Ground Level Elevation 3668	
14. Multiple 15. Proposed Depth N 8781		16. Formation 17. Contractor Yeso Formation		18. Spud Date 8/31/2012	
Depth to Ground water		Distance from nearest fresh water > 1000	well	Distance to nearest surface water > 1000	

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	350	400	0
Int1	12.25	9.625	36	850	500	0
Int2	8.75	7	26	0	900	0
Prod	7.875	5.5	17	8781	0	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 17 ½" hole to 350' with a 8.5 ppg, 28 viscosity fresh water mud system. Set 13 3/8" casing and cement to surface. Drill a 12 ½" hole to 850' with a 10 ppg, 30 viscosity brine water mud system. Set 9 5/8" casing and cement to surface. Drill an 8 ½" hole to 3523' MD. Drill a 7 7/8" pilot hole to 5000' MD. Log and evaluate well. Cement entire pilot hole from 5000' MD to 3523' MD with 500 sacks of cement. Kick off and drill an 8 ½"curve to 4273' MD. Drill a 7 7/8" lateral to new BHL at 4000' TVD 8781' MD. Run a tapered string with 7" 26# L-80 from surface to 3523' & 5 ½" 17# L-80 casing to TD with DV/ECP Combo Tool at 3523' and isolation packers in the open hole. Set isolation packers and ECP. Open DV tool and cement from 3523' to surface.

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given above is true a of my knowledge and belief. I further certify that the drilling pit will be construct	220 10 10	OIL CONSERVATION DIVISION			
NMOCD guidelines X , a general permit \Box , or an (a OCD-approved plan \Box .	ttached) alternative	Approved By: Randy Dade			
Printed Name: Electronically filed by Diane Ku	ykendall	Title: District Supervisor			
Title: Production Reporting Mgr	2.0	Approved Date: 6/21/2012	Expiration Date: 6/21/2014		
Email Address: dkuykendall@conchoresources	.com		140		
Date: 6/20/2012 Phone: 432-6	83-7443	Conditions of Approval Atta	ched		

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Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 Form C-102 August 1, 2011

Permit 143564

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	RED LAKE; GL	3. Pool Name
30-015-40410	96836		ORIETA YESO, NORTHEAST
4. Property Code	5. Property Name		6. Wett No.
39213	BIG GIRL 31 STATE		011H
7. OGRID No.	8. Operator Name		9. Elevation
229137	COG OPER	3668	

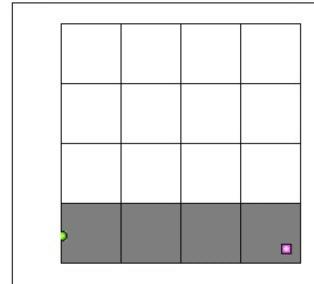
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	31	17S	28E		615	S	10	W	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
P	31	17S	28E	P	330	S	330	E	EDDY
	cated Acres	13. J	oint 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: Production Reporting Mgr

Date: 6/20/2012

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: 5/19/2012 Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: BIG GIRL 31 STATE #011H

API: 30-015-40410

Created By	Comment	Comment Date
kconnally	H2S concentrations of wells in this area from surface to TD are low enough tha a contingency plan is not required.	1/26/2012
CSHAPARD	Land p/S	6/21/2012

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: BIG GIRL 31 STATE #011H

API: 30-015-40410

OCD Reviewer	Condition
CSHAPARD	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