

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 143558

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 30-015-40258
4. Property Code 39213	5. Property Name BIG GIRL 31 STATE	6. Well No. 002

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	31	17S	28E	1	195	N	990	W	EDDY

8. Pool Information

RED LAKE; GLORIETA YESO, NORTHEAST	96836
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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 3627
14. Multiple N	15. Proposed Depth 4825	16. Formation Yeso Formation	17. Contractor	18. Spud Date 7/31/2012
Depth to Ground water 110		Distance from nearest fresh water well > 1000		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	250	300	0
Int1	11	8.625	24	850	400	0
Prod	7.875	5.5	17	4825	900	0

Casing/Cement Program: Additional Comments

COG proposes to drill an 17-1/2" hole to 250' w/fr wtr mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Drill an 11" or 12-1/4" hole to 850' w/brine mud system, wt 10, vis 30, set 8-5/8" casing & cement to surface. Drill 7-7/8" hole to 4825' 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 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 NMOC guidelines ☒ a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .	OIL CONSERVATION DIVISION	
	Approved By: Randy Dade	
	Title: District Supervisor	
	Approved Date: 7/9/2012	Expiration Date: 7/9/2014
	Email Address: dkuykendall@conchoresources.com	
Date: 5/10/2012	Phone: 432-683-7443	Conditions of Approval Attached

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Form C-102
August 1, 2011
Permit 143558

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-40258	2. Pool Code 96836	3. Pool Name RED LAKE; GLORIETA YESO, NORTHEAST
4. Property Code 39213	5. Property Name BIG GIRL 31 STATE	6. Well No. 002
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3627

10. Surface Location

UL - Lot D	Section 31	Township 17S	Range 28E	Lot Idn	Feet From 195	N/S Line N	Feet From 990	E/W Line W	County EDDY
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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
12. Dedicated Acres 43.50	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

<table border="1" style="width: 100%; border-collapse: collapse; height: 150px;"> <tr> <td style="width: 25%; height: 40px; background-color: #cccccc; text-align: center; vertical-align: middle;"> </td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr><td style="height: 40px;"></td><td></td><td></td><td></td></tr> <tr><td style="height: 40px;"></td><td></td><td></td><td></td></tr> <tr><td style="height: 40px;"></td><td></td><td></td><td></td></tr> </table>																	OPERATOR CERTIFICATION <i>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.</i> E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 5/10/2012 SURVEYOR CERTIFICATION <i>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.</i> Surveyed By: Ronald Eidson Date of Survey: 4/10/2012 Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: BIG GIRL 31 STATE #002

API: 30-015-40258

Created By	Comment	Comment Date
konnally	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	5/11/2012

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: BIG GIRL 31 STATE #002

API: 30-015-40258

OCD Reviewer	Condition
CSHAPARD	Will require administrative order for non-standard location
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