

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 143943

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 30-025-40555
4. Property Code 39197	5. Property Name DOOWOP 28 STATE	6. Well No. 004H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	28	13S	36E	M	660	S	330	W	LEA

8. Pool Information

WC-025 G-06 S133628M;ABO	97936
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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 3968
14. Multiple N	15. Proposed Depth 14184	16. Formation Abo Formation	17. Contractor	18. Spud Date 6/30/2012
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	425	300	0
Int1	12.25	9.625	40	4600	1220	0
Int2	8.75	7	29	9060	1000	0
Prod	6.125	4.5	13.5	14184	0	0

Casing/Cement Program: Additional Comments

COG proposes to drill 17-1/2" hole to 425' w/ fresh water mud system, wt. 8.5, vis 28, set 13-3/8" casing & cement to surf. Drill an 12.25" hole to 4600' w/ brine mud system, wt 10, vis 30, set 9-5/8" casing & cement to surf. Drill 8-3/4" hole to 8600' w/ cut brine mud system, wt 8.7, vis 29-32. Set 7" prod casing @ +/- 8870'. Drill 6-1/8" pilot hole thru Lower Basal Abo to +/- 10100', run open hole logs. Spot +/- 250sxs C. Kick off plug from +/- 8870' to +/- 10100'. Drill 6-1/8" hole & kick off @ +/- 9293', building curve over +/- 470' horizontal section in an Easterly direction for +/- 4619' lateral to TD @ +/- 14184' MD, 9820' TVD. Run 4-1/2" prod liner in un-cemented open hole lateral & set isolation packers & liner top packer @ +/- 8770' MD. Respectfully request permission for 100' liner over lap (reduced from 200' rule) to set pump as deep as possible.

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 NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed Name: Electronically filed by Diane Kuykendall

Title: Production Reporting Mgr

Email Address: dkuykendall@conchoresources.com

Date: 4/27/2012

Phone: 432-683-7443

OIL CONSERVATION DIVISION

Approved By: Paul Kautz

Title: Geologist

Approved Date: 5/2/2012

Expiration Date: 5/2/2014

Conditions of Approval Attached

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WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-40555	2. Pool Code 97936	3. Pool Name WC-025 G-06 S133628M;ABO
4. Property Code 39197	5. Property Name DOOWOP 28 STATE	6. Well No. 004H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3968

10. Surface Location

UL - Lot M	Section 28	Township 13S	Range 36E	Lot Idn	Feet From 660	N/S Line S	Feet From 330	E/W Line W	County LEA
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11. Bottom Hole Location If Different From Surface

11. Bottom Hole Location If Different From Surface									
UL - Lot P	Section 28	Township 13S	Range 36E	Lot Idn P	Feet From 660	N/S Line S	Feet From 330	E/W Line E	County LEA
12. Dedicated Acres 160.00		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

	<p align="center">OPERATOR CERTIFICATION</p> <p><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></p> <p>E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 4/27/2012</p>		
	<p align="center">SURVEYOR CERTIFICATION</p> <p><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></p> <p>Surveyed By: Ronald Eidson Date of Survey: 3/21/2012 Certificate Number: 3239</p>		

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: DOOWOP 28 STATE #004H

API: 30-025-40555

Created By	Comment	Comment Date
konnally	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	2/6/2012
CHERRERA	OCD RECIEVED FORM C144 CLEZ. OCD PERMIT #P1-04529	5/2/2012

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: DOOWOP 28 STATE #004H

API: 30-025-40555

OCD Reviewer	Condition
pkautz	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