

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 178067

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

1. Operator Name and Address COG OPERATING LLC One Concho Center Midland, TX 79701		2. OGRID Number 229137
4. Property Code 40076		3. API Number 30-025-41537
5. Property Name DOS ABUELOS FEE		6. Well No. 002H

7. Surface Location

UL - Lot D	Section 20	Township 18S	Range 34E	Lot Idn	Feet From 190	N/S Line N	Feet From 990	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot M	Section 20	Township 18S	Range 34E	Lot Idn M	Feet From 330	N/S Line S	Feet From 380	E/W Line W	County Lea
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9. Pool Information

MESCALERO ESCARPE;BONE SPRING	45793
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 4065
16. Multiple N	17. Proposed Depth 14375	18. Formation Bone Spring	19. Contractor	20. Spud Date 2/1/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1870	1125	0
Int1	12.25	9.625	36	3365	850	0
Prod	7.875	5.5	17	14375	2100	2865

Casing/Cement Program: Additional Comments

Plan to drill 17 1/2" hole to 1870' w/fresh water, run 13 3/8" 54.5# J-55 casing & cement to surface. Drill 12 1/4" hole to 3365' w/brine water, run 9 5/8" 36# J-55 casing & cement to surface. Drill 7 7/8" curve and lateral w/cut brine to approximately 14375' MD. Run 5 1/2" 17# P-110 casing and cement in 2 stages.

22. Proposed Blowout Prevention Program

Type Double Ram	Working Pressure 3000	Test Pressure 3000	Manufacturer Cameron
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23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Diane Kuykendall	Approved By: Paul Kautz
Title: Production Reporting Mgr	Title: Geologist
Email Address: dkuykendall@conchoresources.com	Approved Date: 12/6/2013 Expiration Date: 12/6/2015
Date: 12/4/2013 Phone: 432-683-7443	Conditions of Approval Attached

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Form C-102
August 1, 2011
Permit 178067

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-41537	2. Pool Code 45793	3. Pool Name MESCALERO ESCARPE;BONE SPRING
4. Property Code 40076	5. Property Name DOS ABUELOS FEE	6. Well No. 002H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 4065

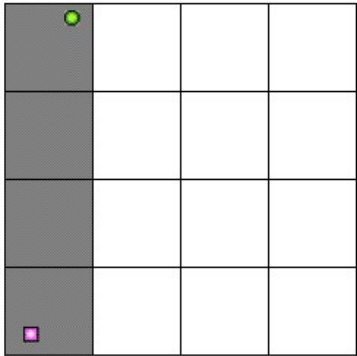
10. Surface Location

UL - Lot D	Section 20	Township 18S	Range 34E	Lot Idn	Feet From 190	N/S Line N	Feet From 990	E/W Line W	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot M	Section 20	Township 18S	Range 34E	Lot Idn	Feet From 330	N/S Line S	Feet From 380	E/W Line W	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 style="text-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: 12/4/2013</p> <hr/> <p style="text-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: CHAD HARCROW Date of Survey: 5/6/2013 Certificate Number: 17777</p>
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Form APD Comments

Permit 178067

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-025-41537
		Well: DOS ABUELOS FEE #002H
Created By	Comment	Comment Date
pkautz	Land p/S	12/6/2013

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Form APD Conditions
 Permit 178067

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-41537
	Well: DOS ABUELOS FEE #002H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
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
pkautz	SURFACE & INTERMEDIATE CASING - Cement must circulate to surface
pkautz	PRODUCTION CASING - Cement must tie back into intermediate casing