

**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 182734

**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 40447		3. API Number 30-025-41714
5. Property Name TOMCAT FEE		6. Well No. 001H

**7. Surface Location**

UL - Lot D	Section 8	Township 19S	Range 35E	Lot Idn	Feet From 370	N/S Line N	Feet From 760	E/W Line W	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot M	Section 8	Township 19S	Range 35E	Lot Idn M	Feet From 330	N/S Line S	Feet From 660	E/W Line W	County Lea
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**9. Pool Information**

SCHARB;BONE SPRING	55610
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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 3876
16. Multiple N	17. Proposed Depth 15053	18. Formation Bone Spring	19. Contractor	20. Spud Date 3/17/2014
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	1860	1250	
Int1	12.25	9.625	36	3450	925	
Prod	7.875	5.5	17	15053	2295	

**Casing/Cement Program: Additional Comments**

Drill 17-1/2" hole to ~1860' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/ 2% CaCl2 to cement to surface, if necessary. Drill 12-1/4" hole to ~3450' with saturated brine water. Run 9-5/8" 36# J55 LTC casing to TD and cement to surface in one stage. Drill 7-7/8" vertical hole, curve, and lateral to 15053' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement to surface in one stage.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	Hydriil

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:	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronicly filed by Diane Kuykendall	Approved By: Paul Kautz
Title: Production Reporting Mgr	Title: Geologist
Email Address: dkuykendall@conchoresources.com	Approved Date: 3/10/2014      Expiration Date: 3/10/2016
Date: 3/10/2014      Phone: 432-683-7443	Conditions of Approval Attached

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State of New Mexico

Energy, Minerals and Natural Resources

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Santa Fe, NM 87505

Form C-102

August 1, 2011

Permit 182734

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-41714	2. Pool Code 55610	3. Pool Name SCHARB;BONE SPRING
4. Property Code 40447	5. Property Name TOMCAT FEE	6. Well No. 001H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3876

10. Surface Location

UL - Lot D	Section 8	Township 19S	Range 35E	Lot Idn	Feet From 370	N/S Line N	Feet From 760	E/W Line W	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot M	Section 8	Township 19S	Range 35E	Lot Idn	Feet From 330	N/S Line S	Feet From 660	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 align="center"><b>OPERATOR CERTIFICATION</b></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: 3/10/2014</p>		
	<p align="center"><b>SURVEYOR CERTIFICATION</b></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: 2/27/2014  Certificate Number: 17777</p>		

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Form APD Comments

Permit 182734

**PERMIT COMMENTS**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-41714
	Well: TOMCAT FEE #001H

Created By	Comment	Comment Date
mreyes1	OIL: COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.	3/10/2014
pkautz	Land p/P	3/10/2014

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Form APD Conditions  
 Permit 182734

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-025-41714
	Well: TOMCAT FEE #001H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	Will require administrative order for non-standard location
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	1) SURFACE & INTERNEMIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water