

**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 165351

**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 39815		3. API Number 30-025-41109
5. Property Name VAN GOGH FEE		6. Well No. 002H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	11	24S	34E	O	150	S	1980	E	LEA

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	11	24S	34E	B	330	N	1980	E	Lea

**9. Pool Information**

RED HILLS;BONE SPRING, NORTH	96434
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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 3477
16. Multiple N	17. Proposed Depth 15391	18. Formation Bone Spring	19. Contractor	20. Spud Date 4/19/2013
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

**21. 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	54.5	1200	900	
Int1	12.25	9.625	36	5100	1100	
Prod	7.875	5.5	17	15391	2200	4900

**Casing/Cement Program: Additional Comments**

Plan to drill a 17-1/2" hole to 1200' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 5100' with Brine, and run 9-5/8", 36#/40#, J55 and cement to surface. Drill 7-7/8" pilot hole to 12,200' to run OH logs, then plug back to kick off and drill a 7-7/8" curve and lateral with cut brine to approx 15,391' MD. Run 5-1/2", 17#, P-110 csg and cement to 4900' in 1 stage.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Cameron

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: Electronically filed by Diane Kuykendall Title: Production Reporting Mgr Email Address: dkuykendall@conchoresources.com Date: 4/11/2013	Approved By: Paul Kautz Title: Geologist Approved Date: 4/12/2013      Expiration Date: 4/12/2015 Conditions of Approval Attached

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-102  
August 1, 2011  
Permit 165351

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-41109	2. Pool Code 96434	3. Pool Name RED HILLS;BONE SPRING, NORTH
4. Property Code 39815	5. Property Name VAN GOGH FEE	6. Well No. 002H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3477

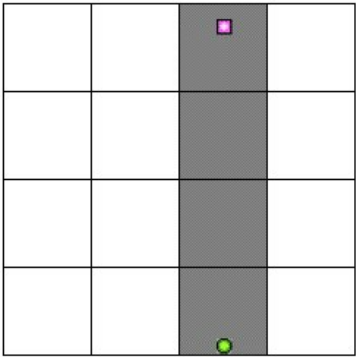
**10. Surface Location**

UL - Lot O	Section 11	Township 24S	Range 34E	Lot Idn B	Feet From 150	N/S Line S	Feet From 1980	E/W Line E	County LEA
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**11. Bottom Hole Location If Different From Surface**

UL - Lot B	Section 11	Township 24S	Range 34E	Lot Idn B	Feet From 330	N/S Line N	Feet From 1980	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 style="text-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: 4/11/2013</p> <hr/> <p style="text-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: 2/8/2013 Certificate Number: 17777</p>
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## Permit Comments

**Operator:** COG OPERATING LLC , 229137

**Well:** VAN GOGH FEE #002H

**API:** 30-025-41109

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.	4/11/2013
pkautz	Land p/P	4/11/2013
CHERRERA	OCD RECEIVED FORM 144 CLEZ. OCD PERMIT # P1-06045	4/12/2013

## Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: VAN GOGH FEE #002H

API: 30-025-41109

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
pkautz	In order to seal off protectable water, surface casing must be set 25' top of Rustler Anhydrite.