

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 154127

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
		3. API Number 30-025-40733
4. Property Code 39421	5. Property Name SOPAPILLA STATE	6. Well No. 001H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	2	23S	33E	M	190	S	380	W	LEA

8. Pool Information

BRINNINSTOOL;BONE SPRING	7320
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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 3561
14. Multiple N	15. Proposed Depth 15661	16. Formation 2nd Bone Spring Sand	17. Contractor	18. Spud Date 9/4/2012
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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	54.5	1035	675	
Surf	17.5	13.375	54.5	1035	675	
Int1	12.25	9.625	40	4900	1300	
Int1	12.25	9.625	40	4900	1300	
Prod	7.875	5.5	17	15661	1550	4400
Prod	7.875	5.5	17	15661	1550	4400

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 1035' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 4900' with Brine, and run 9-5/8", 40#, J55/N80 and cement to surface. Drill 7-7/8" curve and lateral with cut brine to approx 15,661'MD. Run 5-1/2", 17#, P-110 csg and cement to 4400' in 1 stage.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Cameron
DoubleRam	3000	3000	Cameron

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: 8/27/2012

Phone: 432-683-7443

OIL CONSERVATION DIVISION

Approved By: Paul Kautz

Title: Geologist

Approved Date: 8/29/2012

Expiration Date: 8/29/2014

Conditions of Approval Attached

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

Form C-102
 August 1, 2011
 Permit 154127

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-40733	2. Pool Code 7320	3. Pool Name BRINNINSTOOL,BONE SPRING
4. Property Code 39421	5. Property Name SOPAPILLA STATE	6. Well No. 001H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3561

10. Surface Location

UL - Lot M	Section 2	Township 23S	Range 33E	Lot Idn	Feet From 190	N/S Line S	Feet From 380	E/W Line W	County LEA
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11. Bottom Hole Location If Different From Surface

UL - Lot D	Section 2	Township 23S	Range 33E	Lot Idn 4	Feet From 330	N/S Line N	Feet From 380	E/W Line W	County LEA
12. Dedicated Acres 159.51	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

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Permit Comments

Operator: COG OPERATING LLC , 229137

Well: SOPAPILLA STATE #001H

API: 30-025-40733

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.	8/27/2012
pkautz	Land s/S	8/28/2012
CHERRERA	OCD RECEIVED FORM C144 CLEZ. OCD PERMIT # P1-05121	8/29/2012

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: SOPAPILLA STATE #001H

API: 30-025-40733

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