

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 157637

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

1. Operator Name and Address COG PRODUCTION, LLC 550 W. Texas Avenue, Suite 100 Midland, TX 79701		2. OGRID Number 217955
		3. API Number 30-025-40858
4. Property Code 39454	5. Property Name SOPAPILLA STATE	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
N	2	23S	33E	N	190	S	2260	W	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	2	23S	33E	C	330	N	2260	W	Lea

9. Pool Information

BRINNINSTOOL;BONE SPRING	7320
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3549
16. Multiple N	17. Proposed Depth	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date
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	1000	800	
Int1	12.25	9.625	36	4800	1100	
Prod	7.875	5.5	17	15623	2200	4600

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 1000' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 4800' with Brine, and run 9-5/8", 36#/40#, J55 and cement to surface. Drill 7-7/8" vertical, curve and lateral with cut brine to approx 15,621' MD. Run 5-1/2", 17#, P-110 csg and cement to 4600' 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:	OIL CONSERVATION DIVISION Approved By: ELIDIO GONZALES
Printed Name: Electronically filed by DIANE KUYKENDALL	Title: HOBBS STAFF MANAGER
Title: Production Reporting Manager	Approved Date: 11/13/2012 Expiration Date: 11/13/2014
Email Address: dkuykendall@concho.com	
Date: 11/8/2012 Phone: 432-685-4372	Conditions of Approval Attached

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
August 1, 2011
Permit 157637

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-40858	2. Pool Code 7320	3. Pool Name BRINNINSTOOL,BONE SPRING
4. Property Code 39454	5. Property Name SOPAPILLA STATE	6. Well No. 002H
7. OGRID No. 217955	8. Operator Name COG PRODUCTION, LLC	9. Elevation 3549

10. Surface Location

UL - Lot N	Section 2	Township 23S	Range 33E	Lot Idn	Feet From 190	N/S Line S	Feet From 2260	E/W Line W	County LEA
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11. Bottom Hole Location If Different From Surface

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UL - Lot C	Section 2	Township 23S	Range 33E	Lot Idn 3	Feet From 330	N/S Line N	Feet From 2260	E/W Line W	County LEA
12. Dedicated Acres 159.63		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

<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px; background-color: #cccccc;">■</td><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px; background-color: #cccccc;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px; background-color: #cccccc;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px; background-color: #cccccc;">●</td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> </table>		■												●			<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 Manager Date: 11/8/2012</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: Jeffrey Hudson Date of Survey: 7/8/2012 Certificate Number: 20559</p>
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	●																

Permit Comments

Operator: COG PRODUCTION, LLC , 217955

Well: SOPAPILLA STATE #002H

API: 30-025-40858

Created By	Comment	Comment Date
matyereyes	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.	11/8/2012
CHERRERA	OCD RECEIVED FORM C144 CLEZ. OCD PERMIT # P1-05426	11/9/2012

Permit Conditions of Approval

Operator: COG PRODUCTION, LLC , 217955

Well: SOPAPILLA STATE #002H

API: 30-025-40858

OCD Reviewer	Condition
CHERRERA	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
CHERRERA	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