

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(505) 393-8161 Fax:(505) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(505) 748-1283 Fax:(505) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-8178 Fax:(505) 334-8170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3482

**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 210476

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

1. Operator Name and Address COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701		2. OGRID Number 217955
4. Property Code 39454		3. API Number 30-025-42812
5. Property Name SOPAPILLA STATE		6. Well No. 004H

**7. Surface Location**

UL - Lot	D	Section	2	Township	23S	Range	33E	Lot Idn	4	Feet From	190	N/S Line	N	Feet From	1150	E/W Line	W	County	Lea
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**8. Proposed Bottom Hole Location**

UL - Lot	M	Section	2	Township	23S	Range	33E	Lot Idn	M	Feet From	330	N/S Line	S	Feet From	1310	E/W Line	W	County	Lea
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**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 3164
16. Multiple N	17. Proposed Depth 14252	18. Formation Bone Spring	19. Contractor	20. Spud Date 10/7/2015
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	1075	800	0
Int1	12.25	9.625	40	4800	1200	0
Prod	8.75	5.5	17	14252	2200	4400

**Casing/Cement Program: Additional Comments**

Plan to drill a 17-1/2" hole to 1075' with Fresh Water. Run 13-3/8", 54.5# J-55 casing and cement to surface, 1st Intermediate - Drill 12-1/4" hole to 4800' with Brine, and run 9-5/8", 4300' of 40# J-55 plus 500' of 40# N/L-80 and cement to surface. Drill a 8-3/4" Vertical, Curve and Lateral with cut Brine from 4800' to approximately 14,252'. Run 5-1/2" 17 P110 casing to TD and cement in one stage circulating cement to 4400'.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	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 Manager Email Address: dkuykendall@concho.com Date: 9/28/2015	Approved By: Paul Kautz Title: Geologist Approved Date: 9/28/2015 Expiration Date: 9/28/2017 Conditions of Approval Attached

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**Santa Fe, NM 87505**

Form C-102  
August 1, 2011  
Permit 210476

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-42812	2. Pool Code 7320	3. Pool Name BRINNINSTOOL;BONE SPRING
4. Property Code 39454	5. Property Name SOPAPILLA STATE	6. Well No. 004H
7. OGRID No. 217955	8. Operator Name COG PRODUCTION, LLC	9. Elevation 3164

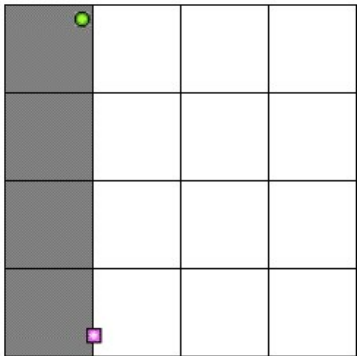
**10. Surface Location**

UL - Lot D	Section 2	Township 23S	Range 33E	Lot Idn 4	Feet From 190	N/S Line N	Feet From 1150	E/W Line W	County Lea
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**11. Bottom Hole Location If Different From Surface**

UL - Lot M	Section 2	Township 23S	Range 33E	Lot Idn	Feet From 330	N/S Line S	Feet From 1310	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**

	<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 Manager Date: 9/28/2015</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: 6/26/2015 Certificate Number: 17777</p>
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**Santa Fe, NM 87505**

Form APD Comments

Permit 210476

**PERMIT COMMENTS**

Operator Name and Address: COG PRODUCTION, LLC [217955] 600 W. Illinois Ave Midland, TX 79701		API Number: 30-025-42812
		Well: SOPAPILLA STATE #004H
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.	9/28/2015

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Form APD Conditions

Permit 210476

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: COG PRODUCTION, LLC [217955] 600 W. Illinois Ave Midland, TX 79701	API Number: 30-025-42812
	Well: SOPAPILLA STATE #004H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
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	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
pkautz	Will require a administrative order for non-standard location prior to placing the well on production.
pkautz	1) SURFACE & INTERNEMIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186
pkautz	1) Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.