District I

UL - Lot

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

Section

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 210471

APPLICA	ATION FOR PERMIT TO	DRILL, RE-	ENTER, DEEPI	EN, PLUGBAC	K, OR ADD A ZO	NE	
Operator Name and Address COG PRODUCTION, LLC					2. OGF	RID Number 217955	
600 W. Illinois Ave Midland, TX 79701					3. API	Number 30-025-42811	
4. Property Code 39454	5. Property Name SOPAPILLA STAT	E			6. Well	No. 003H	
		7. Sur	face Location				
UL - Lot Section Township 23		Lot Idn 3	Feet From 190	N/S Line N	Feet From 2260	E/W Line W	County Lea
	1	B. Proposed E	ottom Hole Locat	ion		22	25

Feet From

330

N/S Line

S

Test Pressure

5000

Feet From

2260

E/W Line

County

Manufacturer

Cameron

Lea

Lot Idn

Working Pressure

5000

ESSENTIAL DESCRIPTION OF SELECTION OF SELECT	9. Pool information	13000
BRINNINSTOOL:BONE SPRING	i a Santo Santali (All Andrei)	7320

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lesse Type State	15. Ground Level Elevation 3460
16. Multiple N	17. Proposed Depth 14248	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

Type Double Ram Township

238

Range

33E

21. Proposed Casing and Cement Program

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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	14248	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 an 8-3/4" Pilot Hole to 12,500' with cut brine and additives/mud as needed to run logs. Plug back to KOP at approximately 9200' (cement volumes per open hole log caliper). Kick off cement plug and drill an 8-3/4" curve and lateral with cut brine to approximately 14,248' MD. Run 5-1/2" 17 P110 casing to TD and cement in one stage circulating cement to 4400'

22. Proposed Blowout Prevention Program

knowledge and	belief. I have complied with 19.15.14.9 (is true and complete to the best of my A) NMAC and/or 19.15.14.9 (B)		OIL CONS	ERVATION DIVISION
Printed Name:	Electronically filed by Diane Ku	ykendall	Approved By:	Paul Kautz	
Title:	Production Reporting Manager		Title:	Geologist	11 - 11 - 11 - 11 - 12 - 12 - 12 - 12 -
Email Address:	dkuykendall@concho.com	Approved Date:	9/28/2015	Expiration Date: 9/28/2017	
Email Address:	and ynoridania control ocom				

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Form C-102 August 1, 2011

Permit 210471

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-42811	2. Pool Code 7320	3. Pool Name
30-025-42811 4. Property Code	5. Property Name	BRINNINSTOOL;BONE SPRING 6. Well No.
39454	SOPAPILLA STATE	003H
7. OGRID No. 217955	8. Operator Name COG PRODUCTION 11 C	9. Elevation 3460

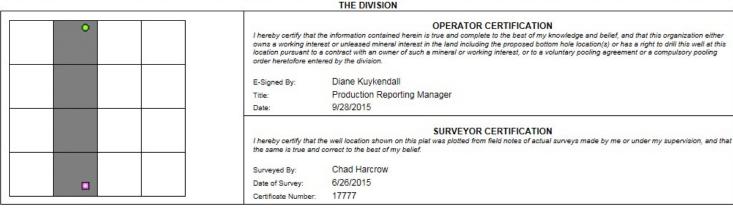
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	2	23S	33E	3	190	N	2260	W	Lea

11. Bottom Hole Location If Different From Surface

UL - Lot	Section 2	Township 23S	Range 33E	Lot Idn	Feet From 330	N/S Line S	Feet From 2260	E/W Line W	County Lea
12. Dedicated Acre 159 63		300	13. Joint or Infill		14. Consolidation Code		32	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



Form APD Comments

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State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Permit 210471

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG PRODUCTION, LLC [217955]	30-025-42811
600 W. Illinois Ave	Well:
Midland, TX 79701	SOPAPILLA STATE #003H

Created By	Comment	Comment Date
	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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PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG PRODUCTION, LLC [217955]	30-025-42811
600 W. Illinois Ave	Well:
Midland, TX 79701	SOPAPILLA STATE #003H

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	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.