<u>District I</u> 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

Santa Fe, NM 87505

1220 S. St Francis Dr.

Form C-101 August 1, 2011

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

	Name and Address	2. OGRID Number		
	COG OPERATING LLC One Concho Center			
	One Concho Center Midland, TX 79701			
17110111		30-025-41194		
4. Property Code	5. Property Name	6. Well No.		
310214	COSMO 8 STATE	003H		

7. Surface Location

	7. Surface Docution										
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County		
L	8	218	34E	L	2310	S	190	W	LEA		

8. Proposed Bottom Hole Location

	of Troposca Bottom Hote Estation									
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
I	8	218	34E	I	2260	S	330	E	Lea	

9. Pool Information

BERRY:BONE SPRING, SOUTH	96660

Additional Well Information

11. Work Type 12. Wett Type New Wetl OIL		13. Cable/Rotary	14. Lesse Type State	15. Ground Level Elevation 3742	
16. Multiple N			18. Formation Bone Spring	19. Contractor	20. Spud Date 5/28/2013
Depth to Ground		,50,	Distance from nearest fresh water	r 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	2050	1185	
Int1	12.25	9.625	36	5780	1670	
Prod	7.875	5.5	17	15367	1640	5480

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~2050' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/ 2% CaCl2 to cement to surface, if necessary. Drill 12-1/4" hole to ~5780' with saturated brine water If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5/8" 36# J55 & 40# N80 BTC casing to TD with a DV tool placed ~ 100' above the Reef. Plan to circulate cement on both stages. Drill 7-7/8" pilot hole to 11950', log and plug back with 120 sx cement plug # 11650' - 11950' and 340 sx cement plug # 10100' - 11000' Drill 7-7/8" curve and lateral to 15367' with cut brine.

Run 5-1/2" 17# P110 LTC casing to TD and cement to 5480' (300' overlap) in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	5000	5000	Shaeffer

 I hereby certify that the in best of my knowledge and bel 	formation given above is true and complete to the ief.	OIL CONSERVATION DIVISION			
I further certify I have com 19.15.14.9 (B) NMAC ⊠, if	plied with 19.15.14.9 (A) NMAC and/or applicable.	Approved By: Paul Kautz			
Signature:					
Printed Name: Electronic	ally filed by Diane Kuykendall	Title: Geologist			
Title: Production Report	ting Mgr	Approved Date: 5/22/2013	Expiration Date: 5/22/2015		
Email Address: dkuyken	dall@conchoresources.com	-1,,			
Date: 5/21/2013	Phone: 432-683-7443	Conditions of Approval Atta	ched		

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division

August 1, 2011

Form C-102

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
		The state of the control of the cont
30-025-41194	96660	BERRY;BONE SPRING, SOUTH
4. Property Code	5. Property	Name 6. Wetl No.
310214	COSMO 8	STATE 003H
7. OGRID No.	8. Operator	Name 9. Elevation
229137	COG OPERA	TING LLC 3742

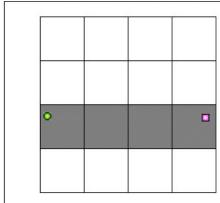
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	8	218	34E		2310	S	190	W	LEA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	8	218	34E	I	2260	S	330	E	LEA
	cated Acres	13. 3	oint 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



OPERATOR CERTIFICATION

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.

E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 5/21/2013

SURVEYOR CERTIFICATION

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.

Surveyed By: Chad Harcrow Date of Survey: 4/16/2013 Certificate Number: 17777

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: COSMO 8 STATE #003H

API: 30-025-41194

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.	5/21/2013
CHERRERA	OCD RECEIVED FORM C144 CLEZ. OCD PERMIT # P1-06258	5/22/2013
pkautz	Land p/S	5/22/2013

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: COSMO 8 STATE #003H API: 30-025-41194

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' below top Rustler Anhydrite.	
pkautz	Cement production casing 5 1/2 must tie back into 9 5/8 intermediate casing.	