<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

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 258468

Manufacturer

Cameron

1. Operat		e and Address OPERATING LLC	:						2.	OGRID Number 229137		
		N Texas and , TX 79701							3.	API Number 30-025-45256	3	
4. Property Code 322718				5. Property Name 6. Well No. LYCHEE STATE COM 003H								
					7	. Surfa	ace Location					
UL - Lot		Section	Township	Range	Lot Idn		Feet From	N/S Line	Feet From	E/W Line	County	
	N	22	21	IS 34E		N	210	S	1980	W		Lea
					8. Propo	sed Bo	ottom Hole Location	on				
		Section	Township	Range	Lot Idn		Feet From	N/S Line	Feet From	E/W Line	County	
UL - Lot												

	3.1 col illiorination	
BERRY:BONE SPRING SOUTH		96660

Additional Well Information

Additional Well information						
11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation		
New Well	OIL		State	3709		
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date		
N	19152	Bone Spring		10/19/2018		
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water		
				1		

We will be using a closed-loop system in lieu of lined pits

Type

Double Ram

10/12/2018

Date

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	1800	1200	0
Int1	12.25	9.625	40	5600	2100	0
Prod	8.75	5.5	17	19152	2350	0

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~1,800' w/ fresh water spud mud. Run 13-3/8" 54.5# J-55 BTC casing to TD and cement to surface in one stage. Drill 12-1/4" hole to ~5,600' with saturated brine. Run 9-5/8 40# J-55 BTC to 3500' and 9-5/8 40# L-80 BTC casing from 3500' to ~5,600' and cement to surface in two stages with DV/ECP 100' above reef. Drill 8-3/4" vertical hole, curve & lateral to 19,152 with cut brine. Run 5-1/2" 17# HCP110 BTC casing from TD to surface and cement to surface in one stage.

> 22. Proposed Blowout Prevention Program Working Pressure

3000

Phone: 432-683-7443

Test Pressure

3000

Conditions of Approval Attached

knowledge and	I have complied with 19.15.14.9 (A) NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION
Printed Name:	Electronically filed by Diane Kuykendall	Approved By:	Paul F Kautz	
Title:	Production Reporting Mgr	Title:	Geologist	
Email Address:	dkuykendall@concho.com	Approved Date:	10/12/2018	Expiration Date: 10/12/2020

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District IV

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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

Form C-102 August 1, 2011

Permit 258468

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-45256	96660	BERRY;BONE SPRING, SOUTH
4. Property Code	5. Property Name	6. Well No.
322718	LYCHEE STATE COM	003H
7. OGRID No.	8. Operator Name	9. Elevation
229137	COG OPERATING LLC	3709

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	İ
N	22	21S	34E	N	210	S	1980	W	Lea	İ

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
С	15	21S	34E	С	50	N	1980	W	Lea
12. Dedicated Acres			13. Joint or Infill	nfill 14. Consolida		ode		15. Order No.	
320.00)								

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. Diane Kuykendall E-Signed By: Production Reporting Mgr Title: 10/12/2018 Date 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. Chad Harcrow Surveyed By: 9/11/2018 Date of Survey: 17777 Certificate Number:

Form APD Comments

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Permit 258468

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-45256
550 W Texas	Well:
Midland , TX 79701	LYCHEE STATE COM #003H

Created By	Comment	Comment Date
mreyes3	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	10/12/2018
	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.	

Form APD Conditions

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Permit 258468

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:		
COG OPERATING LLC [229137]	30-025-45256		
550 W Texas	Well:		
Midland , TX 79701	LYCHEE STATE COM #003H		

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE 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	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD.
pkautz	Stage Tool - 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.
pkautz	Horizontal Spacing Unit HZSU – Must submit new HZSU on C-102 if lateral fails to penetrate any individual spacing blocks.