District I 1825 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

Type Double Ram

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 188137

Manufacturer

Cameron

CO	me and Address G OPERATING LLO				000	200			2. OGRI	D Number 229137		
	Concho Center and, TX 79701								3. API N	lumber 30-025-41938		
4. Property Coo 403		5.	Property Name MERLIN	STATE	COM				6. Well	No. 002H		
					7. Surfa	ace Location						
JL - Lot D	Section 32	Township 21S	Range	34E	Lot Idn	Feet From 190	N/S Line N	Feet From	60	E/W Line W	County	Lea
					8. Proposed B	ottom Hole Locati	on					
JL - Lot M	Section 32	Township 21S	Range	34E	Lot Idn M	Feet From 330	N/S Line S	Feet From	60	E/W Line W	County	Lea
VC-025 G-0	7 S213430M;BONE	SPRING			15.000	I Information Well Information				97962	2	
1. Work Type Nev	v Well	12. Well Type OIL	55177	13. Ca	able/Rotary	14. Lesse Type 15 State		15. 0	5. Ground Level Elevation 3727			
16. Multiple N		17. Proposed D 1648		18. Fo	ormation Bone Spring				. Spud Date 6/30/2014			
Depth to Groun	d water		ii ii	Distar	oe from nearest fres	sh water well		Dista	noe to ne	earest surface water		
We will be	ising a closed-loo	p system in lieu	of lined pits	21	Dronogad Cagi	ng and Cement Pr	ogram	16				
Type	Hole Size	Casing S	ize		ng Weight/ft	Setting I		Sacks of C	ement		Estimated T	ОС
Surf	17.5	13.375			54.5	190		125	0			
Int1	12.25	9.625			40 5850 2010							
Prod	8.75	5.5			17	1648	30	263	0			
						ram: Additional Co						

cement to surface, if necessary. Drill 12-1/4" hole to ~5850' with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5/8" 40# L80 BTC casing to TD with a DV tool placed ~ 100' above the Reef. Plan to circulate cement on both stages. Drill 8-3/4" vertical hole and curve and 7-7/8" lateral to 16480' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement to surface in one stage.

> 22. Proposed Blowout Prevention Program Working Pressure

3000

Test Pressure

3000

knowledge and be	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATIO	IN DIVISION
Printed Name:	Electronically filed by Diane Kuyk	endall	Approved By:	Paul Kautz	
Title:	Production Reporting Mgr	Title:	Geologist		
Email Address:	dkuykendall@conchoresources.c	Approved Date:	6/26/2014	Expiration Date: 6/26/2016	
Date:	6/23/2014	Phone: 432-683-7443	Conditions of Appr	oval Attached	

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 <u>District II</u>

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

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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 188137

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-41938	97962	WC-025 G-07 S213430M;BONE SPRING
4. Property Code 40318	Property Name MERLIN STATE COM	6. Well No. 002H
7. OGRID No.	8. Operator Name	9. Elevation
229137	COG OPERATING LLC	3727

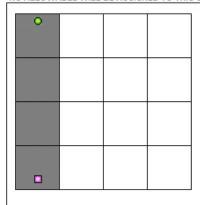
10. Surface Location

				TO. Guil	acc Ecoution				
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	32	218	34E		190	N	660	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
M	32	218	34E	M	330	S	660	W	Lea
	12. Dedicated Acres 160.00		13. Joint or Infill		14. Consolidation Con	de		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: 6/23/2014

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: 12/11/2013
Certificate Number: 17777

Form APD Comments

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-8161 Fax:(575) 393-0720 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

Permit 188137

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-41938
One Concho Center	Well:
Midland, TX 79701	MERLIN STATE COM #002H

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.	6/23/2014

Form APD Conditions

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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 188137

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-41938
One Concho Center	Well:
Midland, TX 79701	MERLIN STATE COM #002H

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	1) SURFACE & INTERNEMIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water