District I

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

District IV

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

Manufacturer

Permit 230683

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

Operator Name	e and Address						2. OGR	ID Number		
	OPERATING LL						100 to 100	229137		
	Concho Center and, TX 79701						3. API I	Number 30-025-43545		
Property Code 3156			5. Property Name VAST STATE				6. Well	No. 024H		
				7. Surf	face Location					
L - Lot O	Section 17	Township 26	Range SS 33E	Lot Idn O	Feet From 210	N/S Line S	Feet From 1995	E/W Line	County	Lea
		200		8. Proposed B	ottom Hole Locati	on	24	565	2.0	
L - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
В	17	269	S 33E	В	200	N	1650	F		Lea

	Additional Well Information					
11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3262		
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date		
N	17277	Wolfcamp		1/31/2017		
Depth to Ground water		Distance from nearest fresh water well	£19	Distance to nearest surface water		

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

Type

21 Droposed Casing and Coment Drogram

			Z I. FTOPOSCU Cusing	una cement riogium		
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	13.5	10.75	45.5	1025	700	
Int1	9.875	7.625	29.7	11750	1000	
Prod	6.75	5.5	23	17277	1350	11000

Casing/Cement Program: Additional Comments

Drill 13-1/2" hole to ~1025' w/ fresh water spud mud. Run 10-3/4" 45.5# J55 STC casing to TD and cement to surface in one stage. Drill 9-7/8" hole to ~11,750' with diesel brine emulsion. Run 7-5/8" 29.7# P110 casing to TD and cement to surface in one stage. Drill 6-3/4" vertical hole, curve & lateral to 17,277' with OBM. Run 5-1/2" 23# P110 LTC by 5" 18# P110 LTC casing to TD and cement to 11,000' in one stage.

22. Proposed Blowout Prevention Program

Test Pressure

Working Pressure

Ann	nular 3000				5000	Cameron
knowledge and I	belief. I have complied w		rue and complete to the best of my NMAC		OIL CONSE	ERVATION DIVISION
Printed Name:	Electronically filed by Diane Kuykendall			Approved By:	Paul Kautz	
Title:	Production Reporting Mgr			Title:	Geologist	_ 11 MAGES
Email Address:	production@concho.com			Approved Date:	1/21/2017	Expiration Date: 1/21/2019
Date:	1/16/2017 Phone: 432-683-7443			Conditions of App	oroval Attached	75 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1

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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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-43545	98097	WC-025 G-09 S263327G;UPPER WOLFCAMP
4. Property Code	5. Property Name	6. Well No.
315647	VAST STATE	024H
7. OGRID No.	8. Operator Name	9. Elevation
229137	COG OPERATING LLC	3262

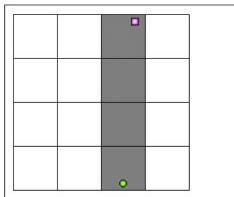
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	17	26S	33E	0	210	S	1995	E	Lea

11. Bottom Hole Location If Different From Surface

UL - Lot B	Section 17	Township 26S	Range 33E	Lot Idn B	Feet From 200	N/S Line N	Feet From 1650	E/W Line	County Lea
12. Dedicated Acre 160.00		2	13. Joint or Infill		14. Consolidation Cod	e		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 Kuvkendall

Title: Production Reporting Mgr

1/16/2017 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.

Gary Jones Surveyed By: 3/30/2016 Date of Survey: Certificate Number: 7977

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 230683

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-43545
One Concho Center	Well:
Midland, TX 79701	VAST STATE #024H

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.	1/16/2017

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Permit 230683

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-43545
One Concho Center	Well:
Midland, TX 79701	VAST STATE #024H

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.
pkautz	Must submit Gas Capture Plan