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 District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

Type

Annular

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

Cameron

Permit 230969

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

					,		N, PLUGBAC				
COG	e and Address OPERATING LLC							-	OGRID Number 229137		
	Concho Center and, TX 79701							3.	. API Number 30-025-43551		
4. Property Code 3156			5. Property Name VAST S	TATE				6.	. Well No. 022H		
					7. Surf	ace Location					
UL - Lot P	Section 17	Township 26	S Range	33E	ot Idn P	Feet From 210	N/S Line S	Feet From 116	E/W Line E	County	Lea
				8.	Proposed B	ottom Hole Location	on				
UL - Lot A	Section 17	Township 26	Range S	33E	ot Idn A	Feet From 200	N/S Line	Feet From 99	E/W Line E	County	Lea
					9. Poo	Information					
WC-025 G-09	S263327G;UPPE	R WOLFCAMP	•		1. 1. 1. 1. 1.	and the decrease of			98	8097	
					Additional	Well Information					
11. Work Type New	Well	12. Well Typ	e DIL	13. Cable	Rotary	14.	Lease Type State	15. Grou	nd Level Elevation 3260		
16. Multiple 17. Proposed Depth N 17086			18. Forms	18. Formation 19. Contractor Wolfcamp			20. Spud	20. Spud Date 1/31/2017			
Depth to Ground water				Distance	Distance from nearest fresh water well Distance				istance to nearest surface water		

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	13.5	10.75	45.5	1025	700	0.000
Int1	9.875	7.625	29.7	11750	1000	
Prod	6.75	5.5	23	17086	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 17,086' 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 Working Pressure Test Pressure

5000

3000

7 50 111	7 till clair			0000	Carrieron
3			78.		NO
knowledge and I	belief. I have complied with 19.15.	bove is true and complete to the best of my 14.9 (A) NMAC ⊠ and/or 19.15.14.9 (B)		OIL CONSERV	ATION DIVISION
Signature:					
Printed Name:	Electronically filed by Diar	ne Kuykendall	Approved By:	Paul Kautz	
Title:	Production Reporting Mgr	100000000000000000000000000000000000000	Title:	Geologist	
Email Address:	production@concho.com	The second secon	Approved Date:	1/21/2017	Expiration Date: 1/21/2019
Date:	1/18/2017	Phone: 432-683-7443	Conditions of Ap	proval Attached	A STATE OF THE STA

District I

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-025-43551	98097	WC-025 G-09 S263327G;UPPER WOLFCAMP
4. Property Code	5. Property Name	6. Well No.
315647	VAST STATE	022H
7. OGRID No.	8. Operator Name	9. Elevation
229137	COG OPERATING LLC	3260

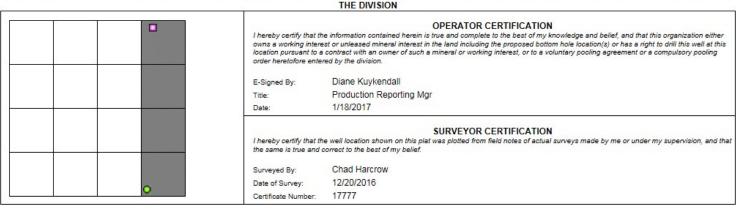
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	17	26S	33E	P	210	S	1165	E	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
Α	17	26S	33E	A	200	N	990	E	Lea
12. Dedicated Acres 160.00		13. Joint 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



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 Form APD Comments State of New Mexico

Phone:(575) 393-6161 Fax:(575) 393-0720 <u>District II</u>:
311 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 <u>District III</u>:
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Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Permit 230969

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137]	API Number: 30-025-43551
One Concho Center Midland, TX 79701	Well: VAST STATE #022H

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.	1/18/2017

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 230969

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-43551
One Concho Center	Well:
Midland, TX 79701	VAST STATE #022H

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