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

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 212550

	e and Address OPERATING LL	С								2. OGR	1D Number 229137		
One Concho Center Midland, TX 79701									3. APIN	Number 30-025-429	946		
4. Property Code 3156		5. F	Property Name VAST S	TATE						6. Well	No. 005H		
					7.	. Surfa	ace Location						
UL - Lot O	Section 17	Township 26S	Range	33E	Lot Idn	0	Feet From 210	N/S Line S	Feet From	1680	E/W Line	Coun	ty Lea
					8. Propos	sed B	ottom Hole Locati	on					
UL - Lot B	Section 17	Township 26S	Range	33E	Lot Idn	В	Feet From 330	N/S Line	Feet From	2310	E/W Line	Coun	ty Lea
					9.	. Pool	Information						
RED HILLS;U	PPER BONE SPE	RING SHALE										97900	
					Addit	ional	Well Information						
11. Work Type New	Well	12. Well Type OIL		13. Ca	able/Rotary			14. Lease Type State	15.		evel Elevation 263		
16. Multiple 17. Proposed Depth N 14000			18. Formation 19. Contractor Bone Spring			19. Contractor	20.	20. Spud Date 11/17/2015					
Depth to Ground water								Distance to nearest surface water					

Type

Double Ram

			Ziii i oposca casing	una coment rogium		
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	815	650	
Int1	12.25	9.625	40	4870	1450	
Prod	8.75	5.5	17	14000	2000	

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 815' with Fresh Water. Run 13-3/8", 54.5# J-55 casing and cement to surface. Drill 12-1/4" hole to 4870' with Brine, and run 9-5/8", 4870' of 40# J-55/N/L-80 and cement to surface. Drill an 8-3/4" vertical, curve and lateral to ~14,000' with Brine/Cut Brine. Run 5-1/2" 17# P 110 LTC. Cement in one stage circulating cement to 300' inside 9-5/8" intermediate casing.

3000

22. Proposed Blowout Prevention Program						
Madda Danas	T4 D					

3000

knowledge and	I have complied with 19.15.14.9 (A) N			OIL CONSERVATIO	N DIVISION	
Printed Name:	Electronically filed by Diane Kuyker	ndall	Approved By:	Paul Kautz		
Title:	Production Reporting Mgr	1111	Title:	Geologist		
Email Address:	production@concho.com	Approved Date:	11/13/2015	Expiration Date: 11/13/2017		
Date:	11/10/2015	Phone: 432-683-7443	Conditions of App	roval Attached		

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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
30-025-42946	97900	RED HILLS; UPPER BONE SPRING SHALE
4. Property Code	5. Property Name	6. Well No.
315647	VAST STATE	005H
7. OGRID No.	8. Operator Name	9. Elevation
229137	COG OPERATING LLC	3263

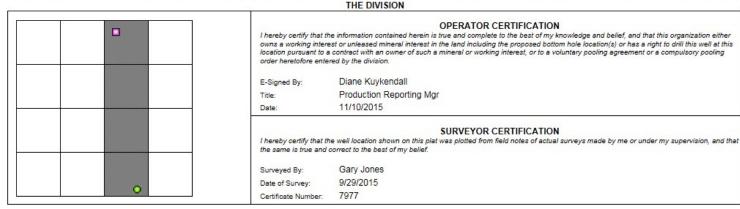
10. Surface Location

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	1680	E	Lea

11. Bottom Hole Location If Different From Surface

UL - Lot B	Section 17	Township 26S	Range 33E	Lot Idn B	Feet From 330	N/S Line N	Feet From 2310	E/W Line	County 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



Form APD Comments

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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> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u> 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 212550

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-42946
One Concho Center	Well:
Midland, TX 79701	VAST STATE #005H

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.	11/10/2015

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 212550

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137]	30-025-42946
One Concho Center	Well:
Midland, TX 79701	VAST STATE #005H

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.