District J 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico	Form C+10
Phone: (\$75) 393-6161 Fax: (\$75) 393-0720 District.II	Energy Minerals and Natural Resou	Révised July 18, 201 TCES
811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III	Oil Conservation Division	1
1000 Rio Brazos Road, Aziec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170	1220 South St. Francis Dr.	AMENDED
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462	Santa Fe, NM 87505	
APPLICATION FOR PERM	IT TO DRILL, RE-ENTER, DEEPEN, PL	UGBACK, OR ADD A ZONE
	Name and Address	OGRID Number

COG Operating LLC 2208 West Main Street Artesia, NM 88210								229137 ** API Number 30-025-42179						
* Property Code 313787 Skull Cap State					Property Name Skull Cap State	". Well No 4H				No				
^{7.} Surface Location														
UL – Lot	Section	Township	,						/S Line	F	et From		E/W Line Cou	
M 32 24S 35E 190 South 380 West Lea							Lea							
* Proposed Bottom Hole Location						E/W Line County								
D	32	245	35E		ben.	1	330		North		380	West		Lea
* Pool Information														
						Pool Code 97899								
Additional Well Information														
¹⁾ Wor New	* 1		¹² Well Type Oil			¹³ Cable/Rotary		¹⁴ Lease Type State			¹¹ Ground Level Elevation 3297.3'			
^{16.} Mu	ltiple l	¹⁷ Proposed Depth 17049			_	¹⁸ Formation F			F Cont	Contractor			Spud Date 3/18/2014	
Depth to Ground water Distance from nearest fresh wale						Distance to nearest surface water								
We will be using a closed-loop system in lieu of lined pits 21. Proposed Casing and Cement Program														
Турс	Hole	: Size	Casing Size		Casing Weight/ft		ght/ft	Setting Depth			Sacks of Cement		t Estimated TOC	
Surface	1	7.5	13.375		54.5			1000'			770			
Intrind	12	1.25	9.625		40			5430'			1835			
. Intrind/Prod	8.	.75	7		29			12769'			1400			
Liner	6.	125	4.5			13.5 I		11800' - 17049'			450			11800
Casing/Cement Program: Additional Comments														
Drill 17-1/2" hole to -1000' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/ 2%														
CaCl2 to cement to surface, if necessary. Drill 12-1/4" hole to ~5430' with saturated brine water. Run 9-5/8" 40# L80 LTC casing to TD and cement to surface in one stage.														
Drill 8-3/4" vertical hole and curve to 12769' with cut brine. Run 7" 29# HCP110 BTC casing to TD and cement in two stages with DV tool @ - 5600' circulating cement														
on both stages. Drill 6-1/8" lateral to 17049' with cut brine / brine. Run 4-1/2" 13.5# HCP110 Tenaris TXP BTC liner to TD and cement in one stage circulating cement to														
top of liner.														

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²² Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

^{23.} I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION				
I further certify that I have complied with 19.15.14.9 (A) NMAC A and/or 19.15.14.9 (B) NMAC Stif applicable Signature:	Approved By:				
Printed name: Mayte Reyes	Title: Petroleum Engineer				
Title: Regulatory Analyst	Approved Date: 10/31/14 Expiration Date: 10/10/16				
E-mail Address: mreyes I @ concho.com					
Date: 10/10/2014 Phone: 575-748-6945	Conditions of Approval Attached				

OCT 3 1 2014