

**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 Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

**State of New Mexico**  
**Energy Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Revised November 14, 2012

☐ AMENDED REPORT

*Rec 4/23/15*

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

<b>1. Operator Name and Address</b> COG Operating LLC 2208 West Main Street Artesia, NM 88210		<b>2. OGRID Number</b> 229137
<b>3. Property Code</b> 39617		<b>4. API Number</b> 30-025-42527
<b>5. Property Name</b> Corazon 4 State SWD		<b>6. Well No</b> 2

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
B2	4	21S	33E	10	3500'	North	2500'	East	Lea

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

**9. Pool Information**

<b>SWD: Devonian</b>	<b>Pool Name</b> SWD-1528	<b>Pool Code</b> 96101
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**Additional Well Information**

<b>11. Work Type</b> New Well	<b>12. Well Type</b> SWD	<b>13. Cable/Rotary</b>	<b>14. Lease Type</b> State	<b>15. Ground Level Elevation</b> 3817.5'
<b>16. Multiple</b> N	<b>17. Proposed Depth</b> 16,500'	<b>18. Formation</b> Devonian	<b>19. Contractor</b>	<b>20. Spud Date</b> 5/1/2015
<b>Depth to Ground water</b>		<b>Distance from nearest fresh water well</b>		<b>Distance to nearest surface water</b>

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	26	20	133	1,725'	2000	0'
Intemd	17.5	13.375	68	5,600'	2000	0'
Production	12.25	9.625	43.5	11,700'	1500	0'
Liner	8.75	7	29	15,400'	400	11,400'
Disposal	6.125	OH	-	16,500'	-	-

**Casing/Cement Program: Additional Comments**

Plan to drill 26" hole to 1725' with fresh water, and run 20", 133#, K-55 and cement to surface. Drill 17-1/2" hole to approximately 5600' with brine and run 13-3/8", 68#, L80 and cement to surface in 2 stages. Drill 12-1/4" hole to approximately 11,700' with cut brine, and run 9-5/8", 43.5#, L-80 csg and cement to surface. Drill 8-3/4" hole to approximately 15,400' with WBM, run 7", 29#, P-110 liner and cement back to TOL. Drill 6-1/8" hole to approximately 16,500' with water, and leave it open hole for salt water disposal purposes.

**22. Proposed Blowout Prevention Program**

<b>Type</b> Double Ram	<b>Working Pressure</b> 5000	<b>Test Pressure</b> 5000	<b>Manufacturer</b> Cameron
<b>23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.</b> <b>I further certify that I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.</b> <b>Signature:</b> <i>Mayte Reyes</i>		<b>OIL CONSERVATION DIVISION</b> <b>Approved By:</b> <i>[Signature]</i> <b>Title:</b> Petroleum Engineer <b>Approved Date:</b> 05/01/15 <b>Expiration Date:</b> 05/01/17	
<b>Printed name:</b> Mayte Reyes			
<b>Title:</b> Regulatory Analyst			
<b>E-mail Address:</b> mreyes1@concho.com			
<b>Date:</b> 4/23/2015	<b>Phone:</b> 575-748-6945	<b>Conditions of Approval Attached</b>	

*PM*

**See Attached**  
**Conditions of Approval**

MAY 05 2015

# CONDITIONS OF APPROVAL

API #	Operator	Well name & Number
30-025-425279	COG Operating LLC	CORAZON 4 State # 2 <i>SWD</i>

Applicable conditions of approval marked with XXXXXX

## Administrative Orders Required

SWD-1528	Will require administrative order for injection or disposal prior to injection or disposal

Other wells

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Drilling

XXXXXXX	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

Pits

XXXXXXX	If using a pit for drilling and completions, must have an approved pit form prior to spudding the well

Completion & Production

XXXXXXX	Must notify Hobbs OCD office prior to conducting MIT (575) 393-6161 ext. 114
XXXXXXX	Must conduct & pass MIT prior to any injection

Potash Area

XXXXXXX	<b>POTASH AREA - Four String Casing Program</b> – In accordance with R-111-P surface string, salt protection string and production string shall be cemented to surface. Liner string must tie back into the production string
XXXXXXX	<b>POTASH AREA - Salt Protection String</b> - If the cement fails to reach the surface or the bottom of the cellar, where required, the top of the cement shall be located by a temperature or other survey and additional cementing shall be done until the cement is brought to the surface.

Casing

XXXXXXX	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
XXXXXXX	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water