#### <u>District I</u> 1625 N French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax (575) 393-0720

Phone (575) 393-6161 Fax (575) 393-0720 <u>District II</u> 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 <u>District IV</u> 1220 S St Francis Dr., Santa Fe, NM 87505

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### State of New Mexico

Form C-101 Revised August 1, 2011

**Energy Minerals and Natural Resources** 

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED	ermit
SEP <b>19</b> 2011	
NMOCD ARTESIA	

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

Operator Name and Address COG Operating, LLC 550 W. Texas Suite 100 Midland, Texas 79701									OGRID Number 229137 - 3API Number 30-015-25017		
*Property Code 308221 / Moncrie					Name State	·	,	° Well No			
<sup>7</sup> Surface Location											
UL - Lot L		ownship 17S	Range 28E	Lot		rom N	S Line	Feet From 330	E/W Line West		
		175			<u> </u>	West	Ludy				
8 Pool Information											
Yeso Additional Well Information											
9 Work			10 Well Type		11 Cable/I	Rotary 12 Lease Type			13 Ground Level Elevation		
D/] 14 Mult		1	5 Proposed Depth	O R Proposed Depth 16 Forma			17	S Contractor	3585  18 Spud Date		
N Depth to Ground water			5400 Yes  Distance from nearest fresh water					Distance to	As soon as approved nearest surface water		
Depin to Groun	u water		10							lace water	
	T				osed Casing	T		T			
Туре	Hole Sız				sing Weight/ft		Setting Depth		ement	Estimated TOC	
Surf Int	12-1/4 7-7/8		8-5/8		24 15.5	499		300 650		0 0	
Prod	4-3/4		5-1/2 4		11.3	3007 5400		125	<u>-</u>	2907	
			7				12				
	<u> </u>										
Casing/Cement Program: Additional Comments											
			I	ropo	sed Blowou	t Preventic	n Progr	am			
Type Working Pressure			Pressure	Test Pressure			. Manufacturer				
Double Ram Manually Operated 3000 psi			psi	1000 psi			Townsend				
I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines				OIL CONSERVATION DIVISION  Approved By  Approved By							
Printed name. Netha Aaron					Title STOVOCIST						
Title Regulatory Analyst					Approved Date 9/7/2/1/1 Expiration Date						
E-mail Address: oaaron@concho com						1100	1				
Date 9/14/11 Phone: 432-818-2319						Conditions of Approval Attached					

# **Moncrief State 1 Deepening**

## **Deepening Procedure**

- 1. MIRU rig.
- 2. Sqz Grayburg/San Andres w/ +/- 300 sx of Class C neat. Drill out squeeze.
- 3. PU 4-3/4" bit and drill 4-3/4" hole from 3025' to 5400'.
- 4. POOH w/ bit and drillstring.
- 5. RIH w/ logs and log from TD to 2900'.
- 6. RIH w/ 4", 11.3# casing. See section 11 for general centralizer program.
- 7. Cement casing from TD to 2907' w/ 125 sxs Class C cmt. Drop plug and open DV tool. Circ cmt off DV tool. Drop plug to close DV tool.
- 8. PU workstring and RIH and drill out DV tool. POOH and LD workstring.
- 9. RDMO rig.

### **Completion Procedure**

- 1. MIRU rig.
- 2. RIH/ w/ perforating guns and perforate Yeso from 4900 5100 w/ 2 spf, 30 holes.
- 3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 4850'.
- 4. RIH w/ perforating guns and perforate Yeso from 4600' 4800'.
- 5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 4550'.
- 6. RIH w/ perforating guns and perforate Yeso from 4300' 4500'.
- 7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 4200'.
- 8. RIH w/ perforating guns and perforate Yeso from 3800' 4100'.
- 9. Acidzie w/ 2500 gals of 15% HCl. Frac zone w/ 129,600 # of sand.
- 10. RIH and drill out plug at 4200', 4550', and 4850'.
- 11. RIH and cut or back off 4" casing at 2907'. POOH w/ 4" casing. Leave 4" liner from 2907' to 5400' (TD).
- 12. RIH w/ tbg and locate end of tbg at 2850'.
- 13. RIH w/ rods and pump.
- 14. RDMO rig.

