

DRILLING INC. Oil Well Drilling Contractor

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RECEIVED

October 15, 2009

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HOBBSD

30-025-39266

COG Operating, Inc.
550 W. Texas, Suite 1300
Midland, Texas 79701

Re: GC Federal #31 - N
Sec. 20, T-17-S, R-32-E
Lea County, New Mexico

525/s & 1960/w

Attn: John Coffman

The following is a Deviation Survey on the referenced well in Lea County, New Mexico:

256' - 0.75°	6529' - 1°
643' - 0.5°	7015' - 1.5°
1132' - 0.75°	
1631' - 2.25°	
2061' - 2.5°	
2546' - 2.75°	
3045' - 1.75°	
3543' - 1°	
4043' - 1.5°	
4512' - 1.25°	
5010' - 1.25°	
5507' - 0.75°	
5849' - 0.5°	
6310' - 1°	

Sincerely

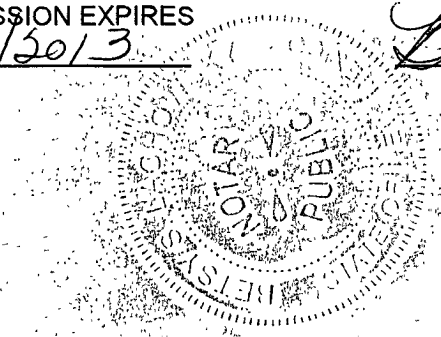
Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 15th day of October, 2009 by Gary W. Chappell.

MY COMMISSION EXPIRES

9/7/2013


NOTARY PUBLIC