

DRILLING INC. Oil Well Drilling Contractor

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August 16, 2010

RECEIVED

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HOBBSUCD

30-025-39477

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

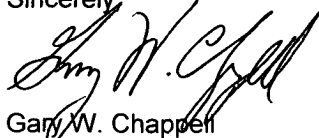
Re: JC Federal # 38 Unit A
Sec. 22, T-17-S, R-32-E 330/A-990/E
Lea County, New Mexico

Attn: John Coffman

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

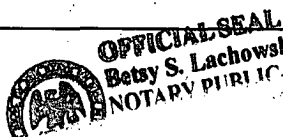
250' - 1.25°	5404' - 1.5°
311' - 1°	5903' - 1°
519' - 1.5°	6400' - 1.25°
694' - 3.5°	6898' - 1.5°
815' - 4.5°	7053' - 1°
1315' - 3°	
1783' - 3.25°	
2091' - 2.5°	
2596' - 1°	
3066' - 0.25°	
3565' - 0.75°	
4064' - 1.25°	
4562' - 1.5°	
4937' - 0.5°	

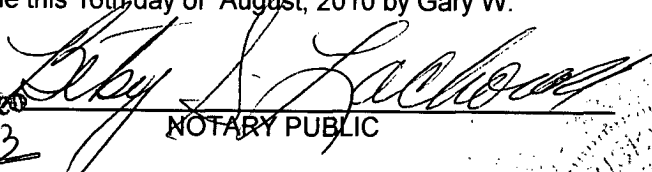
Sincerely,


Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 16th day of August, 2010 by Gary W. Chappell.
MY COMMISSION EXPIRES




NOTARY PUBLIC

