

DRILLING INC. Oil Well Drilling Contractor

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March 18, 2010

RECEIVED

JUN 11 2010

HOBBSOCD

30-025-38831

Re: JC Federal # 17 Unit F Sec. 22, T-17-S, R-32-E Lea County, New Mexico

2310/N 4 1650(W)

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

Attn: John Coffman

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

6201' - 1.75° 218' - 1° 6700' - 2° 490' - 1.75° 6976' - 2° 760' - 3° 1245' - 1.5° 1715' - 1.75° 2052' - 1.75° 2535' - 1.5° 3033' - 1.75° 3531' - 1° 4030' - 2.5° 4234' - 2.5° 4714' - 2° 5211' - 2.25° 5705' - 2°

Gary/W. Chappelf **Contracts Manager**

STATE OF NEW MEXICO)

COUNTY OF EDDY

The foregoing was acknowledged before me this 18th day of March, 2010 by Gary W.

Chappell. MY COMMISSION EXPIRES

> **OFFICIAL SEAL** Betsy S. Lachowsky

FE OF NEW MEXICO