

DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 Artesia, New Mexico 88211-0160 Office (575) 748-8704 Fax (575) 748-8719

March 10, 2011

COG Operating, LLC 500 W. Texas, Suite 1300 Midland, Texas 79710

Attn: John Coffman

30-028-39617

Re: JC Federal # 46 Unit H Sec. 22, T-17-S, R-32-E Lea County, New Mexico

2380/J

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

388' - 1° 857' - 2°	6364' - 0.25° 6860' - 1°	
857' - 2° 1339' - 0.5° 1794' - 1° 2105' - 1.5° 2151' - 1.5° 2649' - 0.75° 3147' - 0.75° 3584' - 1° 4021' - 1° 4457' - 1° 4923' - 1° 5395' - 1.25° 5865' - 1°	6860' - 1° 7079' - 1°	RECEIVE MAR 1 6 2011 HOBBSOCD

Sincerel

Gary W. Chappell Contracts Manager

STATE OF NEW MEXICO) **COUNTY OF EDDY**

The foregoing was acknowledged before me this 10th day of March, 2011 by Gary W. Chappell.

MY COMMISSION EXPIRES

OFFICIAL SEAL CHERYL A. BARTLETT NOTARY PUBLIC STATE OF NEW MEXICO

My commission expires

MAR 2 2 2011