



# DRILLING INC. Oil Well Drilling Contractor

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

RECEIVED

November 19, 2009

JAN 19 2010

HOBBSOCD

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

30-025-38996  
2460N & 330E  
Re: MC Federal #27 Unit 4 m  
Sec. 21, T-17-S, R-32-E  
Lea County, New Mexico

Attn: John Coffman

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

284' - 1°	6315' - 0.75°
523' - 1.75°	6812' - 1.5°
767' - 0.75°	6944' - 1.5°
1192' - 0.75°	
1629' - 1.25°	
2097' - 1°	
2575' - 0.75°	
3075' - 1.75°	
3544' - 1.25°	
4041' - 2.75°	
4539' - 1.25°	
4850' - 1.5°	
5319' - 0.75°	
5817' - 1°	

Sincerely,

Gary W. Chappell  
Contracts Manager

STATE OF NEW MEXICO )  
COUNTY OF EDDY )

The foregoing was acknowledged before me this 19th day of November, 2009 by Gary W. Chappell.

MY COMMISSION EXPIRES

8-13-13

  
NOTARY PUBLIC

OFFICIAL SEAL  
Rachelle Shannon  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 8-13-13