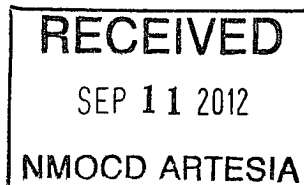


DRILLING INC. Oil Well Drilling Contractor

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

May 1, 2012



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

Re: Tex Mack 11 Federal # 57
Sec 11, T-17-S, R-31-E
Eddy County, New Mexico

Attn: Jim Evans

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

247' - 1°	1876' - 1.25°	3849' - 0.25°	5845' - 1°
506' - 0.75°	2168' - 1°	4288' - 1°	6344' - 0.25°
898' - 0.25°	2603' - 0.25°	4724' - 0.25°	6813' - 0.5°
1335' - 1°	3041' - 0.25°	5161' - 1°	
1773' - 1°	3383' - 0.25°	5595' - 0.5°	

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 1st day of May, 2012 by Gary W. Chappell.

NOTARY PUBLIC

