



DRILLING INC. Oil Well Drilling Contractor

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

HOBBS OCD

JUN 03 2011

April 4, 2011

30-025-39625

RECEIVED

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

Attn: John Coffman

Re: MC Federal # 46 Unit C
Sec. 21, T-17-S, R-32-E
Lea County, New Mexico
435/N & 1600/W

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

265' - 1°	2556' - 1°	5214' - 1°
492' - 0.25°	3054' - 1.5°	5714' - 1°
805' - 0.75°	3614' - 0.5°	6214' - 1°
1257' - 1°	3771' - 1°	6552' - 1°
1756' - 1°	4276' - 1°	6959' - 1°
2086' - 2.5°	4745' - 1.25°	

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 4th day of April, 2011 by Gary W. Chappell.



OFFICIAL SEAL
Crisha Morgan
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 10/28/2011

NOTARY PUBLIC

JUN 08 2011