



DRILLING INC.

30-025-39427
Oil Well Drilling Contractor

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

HOBBS OCD

April 18, 2011

JUN 22 2011 .

RECEIVED

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

Re: MC Federal # 54
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 Lea County, New Mexico:

252' - 0.5°	2057' - 1°	4031' - 0.75°	5774' - 0.5°
806' - 0.75°	2535' - 0.5°	4530' - 0.75°	6273' - 0.5°
1283' - 0.75°	3034' - 1°	4779' - 0.75°	6773' - 0.25°
1782' - 1.25°	3533' - 0.75°	5275' - 1°	7000' - 1°



OFFICIAL SEAL
Valerie Moreno
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 4-4-15

Sincerely,

Gary W. Chappell
Contracts Manager

RECEIVED

JUN 15 2011

NMOCD ARTESIA

STATE OF NEW MEXICO)

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COUNTY OF EDDY)

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The foregoing was acknowledged before me this 18th day of April, 2011 by Gary W. Chappell.

NOTARY PUBLIC