



DRILLING INC. Oil Well Drilling Contractor

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HOBBS OCD

April 28, 2011

30-025-39496 JUL 05 2011

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

RECEIVED
Re: BC Federal # 48 Unit C
Sec. 19, T-17-S, R-32-E
Lea County, New Mexico

925/W & 1604/W

Attn: John Coffman

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

105' - 0.5°	1094' - 1°	3693' - 2°	5937' - 1°
188' - 0.5°	1593' - 1°	3941' - 2°	6436' - 1°
280' - 0.75°	1947' - 1°	4440' - 1.25°	6990' - 1.75°
428' - 2.25°	2445' - 0.75°	4601' - 1.5°	
517' - 2.75°	2944' - 1°	4958' - 1.25°	
604' - 3.25°	3443' - 2.25°	5439' - 1°	

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 28th day of April, 2011 by Gary W. Chappell.



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

My commission expires: 4-29-12

Cheryl A. Bartlett
NOTARY PUBLIC