



DRILLING INC. Oil Well Drilling Contractor

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

July 7, 2011

HOBBS OCD

AUG 15 2011

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

Attn: John Coffman

Re: Leaker CC State # 31
Sec. 16, T-17-S, R-32-E
Lea County, New Mexico

30-025-3876L

Qrit J

2310/S & 1650/E

RECEIVED

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

87' - 0.25°	1138' - 0.5°	4002' - 1°	7065' - 1°
175' - 0.75°	1606' - 1.5°	4501' - 0.75°	
264' - 1.5°	2116' - 1°	4971' - 0.25°	
432' - 0.25°	2600' - 0.5°	5470' - 0.25°	
521' - 0.75°	3098' - 1.75°	5971' - 0.5°	
666' - 1°	3596' - 1°	6468' - 1°	

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 7th day of July, 2011 by Gary W. Chappell.

NOTARY PUBLIC



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

My commission expires: 4-29-12

AUG 31 2011