



DRILLING INC. Oil Well Drilling Contractor

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

June 2, 2011

HOBBS OCD

30-025-40005

AUG 04 2011

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

Re: GC FED # 51
Sec. 19, T-17-S, R-32-E
Lea County, New Mexico

RECEIVED

Unit 8

330/S + 230/E

Attn: John Coffman

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

131' - 0.25°	1159' - 0.25°	3979' - 1°	6969' - 0.5°
221' - 0.25°	1658' - 1°	4477' - 0.75°	
309' - 0.75°	2047' - 1.25°	4975' - 1.5°	
399' - 0.5°	2542' - 1°	5473' - 1°	
486' - 0.75°	3041' - 1°	5909' - 1°	
690' - 0.25°	3538' - 1°	6409' - 1°	

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 2nd day of June, 2011 by Gary W. Chappell.



OFFICIAL SEAL
Crisha Morgan
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 10/28/2014

NOTARY PUBLIC

AUG 18 2011