



DRILLING INC. Oil Well Drilling Contractor

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

RECEIVED

April 27, 2010

JUL 20 2010

HOBBSOCD

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

Attn: John Coffman

Re: JC Federal # 33
Sec. 22, T-17-S, R-32-E
Lea County, New Mexico

30-025-39291

Unit G

1650/N & 2310/E

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

247' - 0.5°	5897' - 2°
484' - 0.75°	6395' - 1°
718' - 1.25°	6862' - 1.5°
869' - 1°	6956' - 1°
1344' - 1°	
1843' - 1.25°	
2059' - 0.75°	
2536' - 0.5°	
3035' - 1°	
3533' - 1.75°	
4030' - 1.75°	
4528' - 2°	
5027' - 1.5°	
5524' - 1.75°	

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 27th day of April, 2010 by Gary W. Chappell.

MY COMMISSION EXPIRES

NOTARY PUBLIC

PETROLEUM ENGINEER

AUG 04 2010

