

DRILLING INC. Oil Well Drilling Contractor

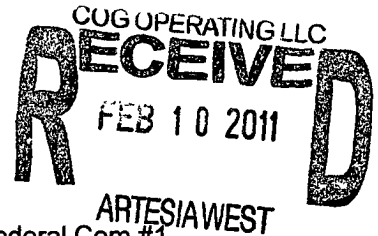
Post Office Box 160 Artesia, New Mexico 88211-0160 Office (575) 748-8704 Fax (575) 748-8719

January 27, 2011

COG Operating LLC
RECEIVED

FEB 03 2011

Office Services/Mail



COG Operating, LLC
500 W. Texas, Suite 1300
Midland, Texas 79710

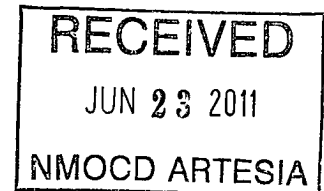
Re: Blackhawk 11 Federal Com #1
Sec. 11, T-15-S, R-28-E
Eddy County, New Mexico

Attn: John Coffman

30-015-38250

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

314' - 1.5°	5267' - 0.75°
589' - 1.5°	5735' - 0.75°
899' - 1.75°	5978' - 1.25°
1210' - 1.75°	6300' - 2°
1550' - 1.5°	6556' - 2°
1866' - 1.75°	
2175' - 1°	
2485' - 0.75°	
2799' - 0.75°	
3235' - 0.5°	
3548' - 1°	
3986' - 0.5°	
4329' - 0.5°	
4799' - 0.5°	



Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 27th day of January, 2011 by Gary W. Chappell.

MY COMMISSION EXPIRES

NOTARY PUBLIC



OFFICIAL SEAL
CHERYL A. BAITLETT
NOTARY PUBLIC STATE OF NEW MEXICO

My commission expires: 4-29-12