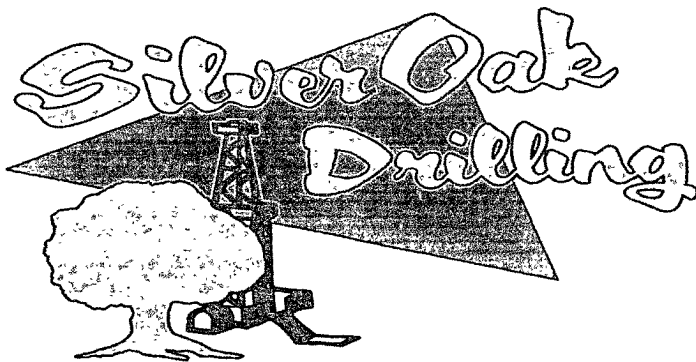




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

RECEIVED

AUG 13 2009

HOBBSOCD

July 17, 2009

COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RE: MC Federal #21
990' FNL & 990' FWL
Sec. 21, T17S, R32E
Lea County, New Mexico

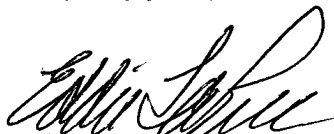
30-025-38815
Unit D

Dear Sir,

The following is the Deviation Survey for the above captioned well.

Depth	Deviation	Depth	Deviation
150.00	0.25	2593.00	0.75
330.00	0.50	3104.00	0.75
510.00	0.75	3568.00	1.00
755.00	0.75	4082.00	1.00
970.00	0.75	4485.00	0.75
1254.00	0.75	4957.00	1.00
1507.00	1.25	5457.00	0.75
1727.00	1.00	5933.00	0.50
1978.00	1.25	6506.00	0.50
2105.00	1.00	6972.00	0.50

Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 17th day of July, 2009.


Notary Public



OFFICIAL SEAL
REGINIA L. GARNER
NOTARY PUBLIC - STATE OF NEW MEXICO

My commission expires Aug. 30, 2012

KZ