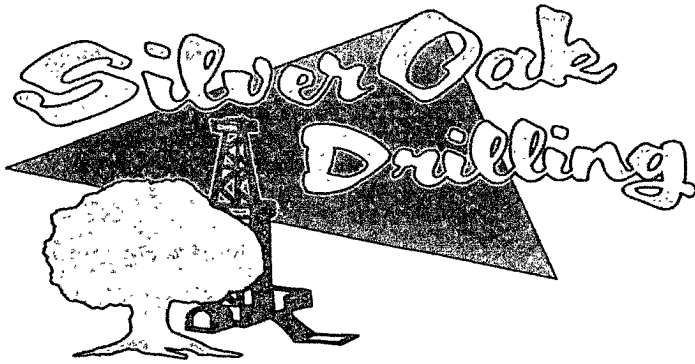




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

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JUN 01 2010

HOBBSOCD

30-025-38995
G-22-17S-32E
2160 FNL + 2310 FEL

March 15, 2010

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

RE: J C Federal #19
2160' FNL & 2310' FEL
Sec. 22, T17S, R32E
Lea County, New Mexico

Dear Sir,

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

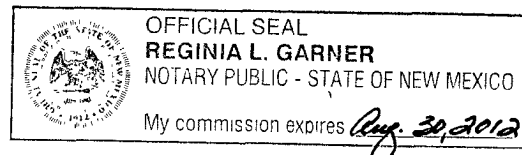
Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 15th day of March, 2010.

Notary Public



JC Federal #19

Date	Depth	Dev	Dir	TVD
3/4/2010	231	0.70		
3/5/2010	700	0.90		
3/5/2010	816	0.60		
3/6/2010	1243	0.30		
3/7/2010	1588	0.90		
3/7/2010	2064	1.60		
3/8/2010	2247	0.90		
3/8/2010	2717	0.80		
3/9/2010	3155	1.10		
3/9/2010	3562	1.00		
3/9/2010	4032	0.50		
3/10/2010	4439	1.10		
3/10/2010	4939	0.50		
3/11/2010	5503	1.70		
3/12/2010	6288	0.90		
3/12/2010	6695	0.80		