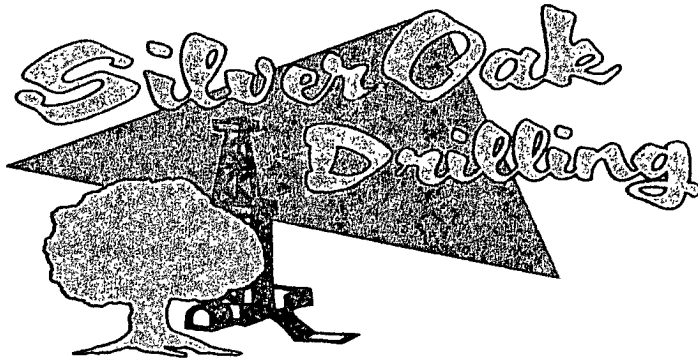




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

December 17, 2008

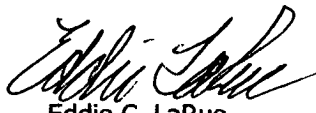
COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RE: Harvard Federal #12
700' FNL & 700' FEL
Sec. 11, T17S, R30E
Eddy, New Mexico

Dear Sir,

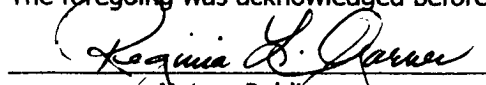
The attached is the Deviation Survey for the above captioned well.

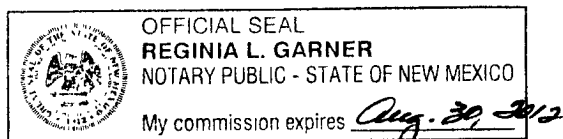
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 17th day of December, 2008.


Regina L. Garner
Notary Public



Depth	Dev/Inc	Dir/AZ
257.00	0.50	0.00
418.00	0.50	0.00
645.00	0.50	0.00
930.00	0.75	0.00
1594.00	3.42	65.96
1690.00	5.14	65.35
1977.00	9.32	41.43
2072.00	10.32	40.52
2168.00	11.24	39.07
2231.00	10.79	39.10
2359.00	10.94	36.79
2486.00	11.20	39.05
2613.00	11.11	35.41
2709.00	9.36	35.75
2804.00	10.58	37.21
2900.00	1.79	43.10
2995.00	11.34	41.78
3091.00	11.16	40.68
3218.00	11.89	42.91
3346.00	11.81	45.27
3473.00	11.81	46.79
3728.00	10.97	48.59
3854.00	10.91	46.43
3918.00	10.70	48.32
3982.00	9.74	48.67
4045.00	8.13	45.83
4427.00	2.42	39.84
4523.00	1.04	42.43
4682.00	0.60	81.19
4873.00	0.65	37.38
5056.00	0.48	55.53
5256.00	0.49	17.92
5415.00	0.56	26.86
5606.00	0.48	59.61
5766.00	0.19	32.30
# EOF		