



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

RECEIVED

JUN 24 2010

HOBBSOCD

April 27, 2010

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

30-025-38999
E-22-17S-32E
2410 FNL & 330 FWL

RE: M C Federal #31
2410' FNL & 330' FWL
Sec. 22, T17S, R32E
Lea County, New Mexico

Dear Sir,

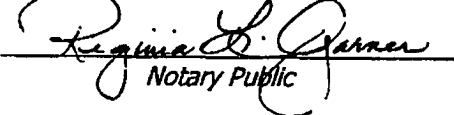
The attached is the Deviation Survey for the above captioned well.

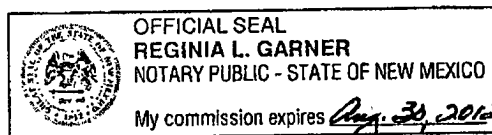
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 27th day of April, 2010.


Regina L. Garner
Notary Public



PETROLEUM ENGINEER
 JUL 15 2010

M C Federal #31

Date	Dev	Dir
3/28/2010	230	0.30
3/28/2010	580	0.50
3/29/2010	784	0.50
3/30/2010	1319	0.20
3/30/2010	1707	1.10
3/31/2010	2102	1.30
4/1/2010	2560	0.80
4/2/2010	3060	1.00
4/2/2010	3590	1.60
4/2/2010	4061	1.60
4/3/2010	4561	1.00
4/3/2010	5062	0.90
4/4/2010	5563	0.60
4/4/2010	5971	0.60
4/5/2010	6474	0.70
4/5/2010	6974	0.10