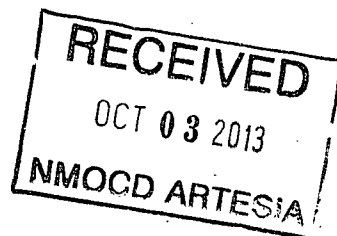




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

30-015-40919



June 28, 2013

COG, LLC
One Concho Center
600 W. Illinois Ave.
Midland, TX 79701

RE: McIntyre DK Federal #20
330' FSL & 990' FWL
Sec. 17, T17S, R30E
Eddy County, New Mexico

Dear Sir,

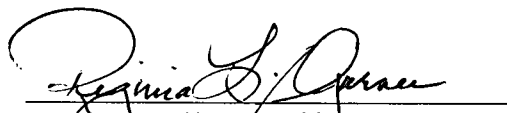
The attached is the Deviation Survey for the above captioned well.

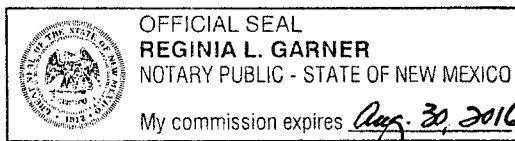
Very truly yours,


Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 28th day of June, 2013.


Notary Public



McIntyre DK Federal #20

Date	Depth	Deviation
6/21/2013	168	0.30
6/21/2013	263	0.10
6/22/2013	528	0.50
6/23/2013	991	1.40
6/23/2013	1071	1.10
6/24/2013	1523	0.50
6/24/2013	1966	0.60
6/25/2013	2406	0.30
6/25/2013	2850	0.20
6/25/2013	3321	0.10
6/26/2013	3762	0.10
6/26/2013	4205	0.30
6/26/2013	4647	0.90
6/26/2013	4740	1.40