



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

30-015-40898

April 17, 2013

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

RE: McIntyre DK Federal #19
483' FSL & 1827' FEL
Sec. 17, T17S, R30E
Eddy County, New Mexico

Dear Sir,

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

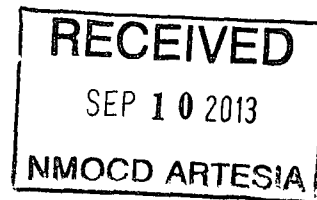
Very truly yours,

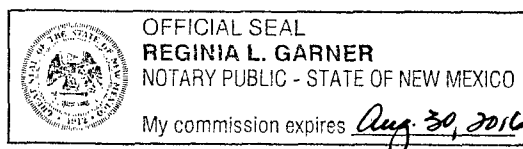
A handwritten signature in cursive script, appearing to read "Chris Graham".

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 17th day of April, 2013.

A handwritten signature in cursive script, appearing to read "Regina L. Garner".

Notary Public

McIntyre DK Fed #19

Date	Depth	Deviation
4/9/2013	196	0.50
4/10/2013	275	0.60
4/11/2013	714	1.50
4/11/2013	1111	1.50
4/13/2013	1538	0.80
4/13/2013	1976	0.10
4/13/2013	2412	0.20
4/13/2013	2848	0.10
4/14/2013	3286	0.20
4/14/2013	3725	0.20
4/14/2013	4164	0.20
4/15/2013	4602	0.70
4/15/2013	4760	0.40