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30-015-38973

March 5, 2012

COG Operating, LLC 550 W. Texas, Suite 1300 Midland, Texas 79701 Re: Empire St. SWD " 8 " # 1 Sec. 8, T-17-S, R-29-E Eddy County, New Mexico

Attn: John Coffman

The following is a Deviation Survey on the referenced well in Eddy County, New Mexico:

74' - 1° 230' - 0.5° 480' - 1° 772' - 0.75°	1348' - 0.5° 1680' - 1.25° 2146' - 0.75° 2335' - 1°	3210' - 1° 3679' - 0.5° 4175' - 0.25° 4645' - 1°	5609' - 1.25° 6103' - 1.25° 6574' - 1° 7047' - 1°	7989' - 1.25° 8296' - 1.5°
1085' - 1°	2739' - 0.75°	5140' - 0.5°	7497' - 1°	

NM OIL CONSERVATION ARTESTA DISTRICT JUL 2 3 2015

RECEIVED

Sincerely,

Gary W. Chappel Contracts Manager

STATE OF NEW MEXICO)

COUNTY OF EDDY

The foregoing was acknowledged before me this 5th day of March, 2012 by Gary W. Chappell.



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