

WELL NAME AND NUMBER	Randall Federal No. 5	30-015-38506
----------------------	-----------------------	--------------

LOCATION Section 7, T17S, R30E, 1170 FSL, 330 FEL, Eddy County WL P

OPERATOR **COG Operating LLC**

DRILLING CONTRACTOR *United Drilling, Inc.*

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation test and obtained the following results:

Degrees @ Depth
.4° @ 260'
.7° @ 381'
.7° @ 656'
.6° @ 908'
.9° @ 1128'
1.43° @ 1244'
1.27° @ 1350'
1.24° @ 1433'
2.57° @ 1528'
2.35° @ 1624'
5.15° @ 1719'
5.19° @ 1909'
4.93° @ 2004'
4.16° @ 2194'
4.88° @ 2289'
4.46° @ 2384'

Degrees @ Depth
4.26° @ 2486'
5.01° @ 2581'
4.93° @ 2675'
5.07° @ 2770'
5.06° @ 2865'
4.83° @ 3056'
5.03° @ 3151'
5.18° @ 3246'
5.24° @ 3436'
5.27° @ 3531'
4.69° @ 3627'
4.82° @ 3721'
4.53° @ 3817'
4.02° @ 3975'
2.80° @ 4039'
2.8° @ 4120'

[illegible]

Drilling Contractor- **UNITED DRILLING, INC.**

By: Luisa Noriega
(Luisa Noriega)

Title: Assistant Office Manager

Subscribed and sworn to before me this 20th day of June, 2011.

Carlene Martin
Notary Public
Chavez New Mexico
County State

My Commission Expires: 10/8/12