

WELL NAME AND NUMBER Empire State SWD #3 30-D15-37831  
LOCATION Section 10, T17S, R29E, 1980 FSL, 1980 FWL, Eddy County  
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	Degrees @ Depth	Degrees @ Depth
.5 @ 203'	.4 @ 2936'	.7 @ 6230'
.6 @ 239'	.4 @ 3093'	.5 @ 6484'
.7 @ 395'	.5 @ 3308'	.5 @ 6675'
1 @ 550'	.7 @ 3508'	.7 @ 7120'
1.5 @ 707'	.6 @ 3794'	.6 @ 7311'
1.3 @ 800'	.7 @ 4046'	.6 @ 7828'
1.1 @ 968'	.9 @ 4271'	3.75 @ 8213'
.2 @ 1215'	.6 @ 4492'	3 @ 8463'
.4 @ 1406'	.7 @ 4747'	2.50 @ 8721'
.6 @ 1635'	.5 @ 4938'	
.7 @ 1819'	.6 @ 5118'	
.5 @ 1884'	.6 @ 5319'	
.4 @ 2049'	.8 @ 5488'	
.3 @ 2264'	.3 @ 5659'	
.3 @ 2454'	.7 @ 5849'	
.7 @ 2750'	.8 @ 6049'	

Drilling Contractor- UNITED DRILLING, INC.

By: Luisa Noriega  
(Luisa Noriega)

Title: Assistant Office Manager

Subscribed and sworn to before me this 31<sup>st</sup> day of Aug, 2010.

Charles Manton  
Notary Public  
Charles 11th  
County State

My Commission Expires: 10/8/12