



WELL NAME AND NUMBER: Empire Abo Unit 405 30-015-39065

LOCATION: SEC. 33, TOWNSHIP 17S, RANGE 28E NMPM; EDDY COUNTY, NEW MEXICO UL "B"  
(New Mexico give U, S, T, & R) 1210' FNL + 2500' FEL

OPERATOR: APACHE CORPORATION

DRILLING CONTRACTOR: AZTEC WELL SERVICING COMPANY INC.

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

Degrees @ Depth

.8 ° @	611
.2 ° @	933
.1 ° @	1183
1.0 ° @	1432
.9 ° @	1963
1.2 ° @	2181
1.1 ° @	2431
.6 ° @	2681
.5 ° @	2994
1.2 ° @	3274
1.1 ° @	3462
.4 ° @	3772
.8 ° @	4022
1.3 ° @	4049
1.2 ° @	4111
1.3 ° @	4298

Degrees @ Depth

1.6 ° @	4548
0.6 ° @	4579
1.9 ° @	4798
2.6 ° @	5016
2.9 ° @	5048
2.8 ° @	5360
3 ° @	5546
3.6 ° @	5715
2.8 ° @	6046
2.8 ° @	6269
° @	
° @	
° @	
° @	
° @	

DRILLING CONTRACTOR AZTEC WELL SERVICING CO. INC.

BY Terri Thompson

Subscribed and sworn to before me this 17th day of February, 2012.

My Commission Expires:

3/16/2013

[Signature]  
Notary Public  
San Juan County, New Mexico

