

WELL NAME AND NUMBER: Empire Abo Unit 419

LOCATION: SEC. 31, TOWNSHIP 17S, RANGE 28E NMPM; EDDY COUNTY, NEW MEXICO
(New Mexico give U, S, T, & R)

OPERATOR: **APACHE CORPORATION**

30-015-39011

DRILLING CONTRACTOR: **AZTEC WELL SERVICING COMPANY INC.**

The undersigns 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

1 ° @	466
1.4 ° @	534
.3 ° @	1032
.6 ° @	1283
.5 ° @	1532
.8 ° @	1783
.6 ° @	2036
.9 ° @	2289
.1 ° @	2540
.4 ° @	2790
.3 ° @	3044
.1 ° @	3545
.1 ° @	3796
.6 ° @	4046
.2 ° @	4297
.9 ° @	4550

Degrees @ Depth

0.7 ° @	4455
1.5 ° @	4803
1.5 ° @	5052
1.7 ° @	5303
1.4 ° @	5555
1 ° @	5818
0.6 ° @	6070
° @	
° @	
° @	
° @	
° @	
° @	
° @	
° @	

DRILLING CONTRACTOR **AZTEC WELL SERVICING CO. INC.**

BY Terri Thompson

Subscribed and sworn to before me this 28th day of October, 2011.

My Commission Expires:

3/16/13

[Signature]
Notary Public
San Juan County, New Mexico

