


Deviation surveys taken on Apache Corporation's State QE 13-2 well in Lea County,  
New Mexico:

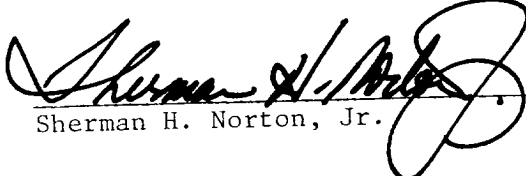
8-13-12-34

<u>Depth</u>	<u>Degree</u>
430	.75
1417	.75
2073	.75
2570	1.00
3065	1.25
3555	1.25
4040	1.00
4200	.75
4668	.75
5162	1.00
5657	1.00
6142	.50
6548	.25
7039	1.00
7530	1.00
7817	.50
8314	.75
8803	1.00
9251	.25
9651	.50
9796	.75
10,357	.50
10,550	.25


I hereby certify that I have personal knowledge of the facts placed on this  
sheet and that such information given above is true and complete.

  
Norton Drilling Company

Before me, the undersigned authority, on this day personally appeared Sherman H.  
Norton, Jr., known to me to be the person whose name is subscribed hereto,  
who, after being duly sworn, on oath states that he is the drilling contractor  
of the well identified in this instrument and that such well was not intentionally  
deviated from the vertical whatsoever.

  
Sherman H. Norton, Jr.

SWORN AND SUBSCRIBED TO before me this 27th day of January 1987.

  
Notary Public in and for  
Lubbock County, Texas.

RECEIVED  
FEB 20 1987  
DCD  
HOBBS OFFICE