

Deviation surveys taken on Mack Energy Corporation's Willow State #6 well
in Eddy County, New Mexico:

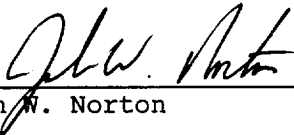
<u>Depth</u>	<u>Degree</u>
470	.50
977	.50
1475	1.75
1726	1.75
1948	1.25
2196	.50
2693	1.00
3193	2.00
3528	2.50
3881	2.75
4006	3.00
4067	2.75
4098	3.00
4161	2.75
4224	2.75
4317	3.00
4380	2.75
4474	2.75
4567	2.50
4661	2.75
4755	2.50
4849	3.25
4942	3.00
5036	2.75
5130	2.50
5223	2.50
5345	2.50
5460	2.75

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.



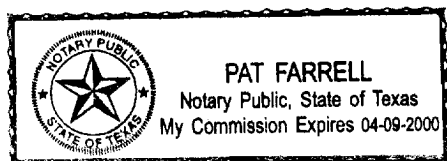
Norton Drilling Company

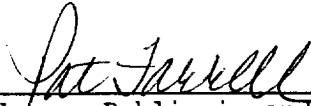
Before me, the undersigned authority, on this day personally appeared John W.
Norton, known to me to be the person whose name is subscribed hereto, who,
after being duly sworn, on oath states that he is the drilling contractor
of the well identified in this instrument and that such well was not
intentionally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



John W. Norton

SWORN AND SUBSCRIBED TO before me this 19th day of June 1997.





Notary Public in and for
Lubbock County, Texas.