

Deviation surveys taken on Spence Energy Company's Cooper 24 #1 well in
Lea County, New Mexico: 520/w + 330/N 124-9-32

<u>Depth</u>	<u>Degree</u>
455	.25
976	.25
1453	.75
1671	1.00
2164	1.25
2650	.75
3136	.25
3601	1.25
4096	1.50
4520	1.00
5038	1.00
5458	1.25
5624	.74
6112	.50
6605	1.00
7019	1.25
7505	1.25
7980	1.00
8405	1.75

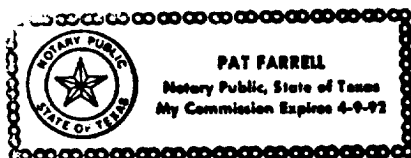
I hereby certify that I have personal knowledge of the facts placed on
this sheet and that such information given above is true and complete.

Jay Norton
Norton Drilling Company

Before me, the undersigned authority, on this day personally appeared
Jay 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.

Jay Norton
Jay Norton

SWORN AND SUBSCRIBED TO before me this 3rd day of April 1992.



Pat Farrell
Notary Public in and for
Lubbock County, Texas.

RECEIVED APR 9 1992