

WELL NAME AND NUMBER State 157 F # 4

LOCATION Section 17-T23S-R36E 660' FNL & 1980' FFL

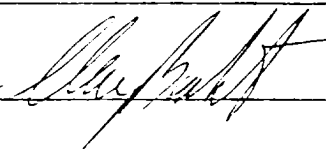
OPERATOR ARCO Oil & Gas Company

DRILLING CONTRACTOR Marc Drilling, Inc.

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

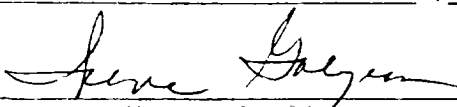
<u>Degrees and Depth</u>	<u>Degrees and Depth</u>	<u>Degrees and Depth</u>	<u>Degrees and Depth</u>	<u>Degrees and Depth</u>
<u>1/2 893</u>	<u>3 1/2 3479</u>			
<u>1/2 1650</u>	<u>3 3540</u>			
<u>1 1/4 2154</u>	<u>3 1/2 3636</u>			
<u>1 3/4 2469</u>	<u>2 3/4 3700</u>			
<u>1 3/4 2530</u>	<u>2 3/4 3750</u>			
<u>2 2816</u>				
<u>3 3005</u>				
<u>2 1/2 3060</u>				
<u>2 1/4 3194</u>				
<u>2 3/4 3321</u>				
<u>3 3384</u>				

DRILLING CONTRACTOR Marc Drilling, Inc.

BY  Pres.

Subscribed and sworn to before me this 15th day of July 19 82

My comm. expires 12-20-84


Notary Public