

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:

| Degrees @ Depth       | Degrees @ Depth       | Degrees @ Depth       | Degrees @ Depth       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| <u>1.50° @ 252'</u>   | <u>1.25° @ 1,793'</u> | <u>1.50° @ 3,862'</u> | <u>2.00° @ 6,149'</u> |
| <u>2.75° @ 449'</u>   | <u>1.25° @ 1,980'</u> | <u>1.25° @ 3,957'</u> | <u>1.50° @ 6,398'</u> |
| <u>2.75° @ 477'</u>   | <u>1.25° @ 2,196'</u> | <u>1.75° @ 4,051'</u> | <u>1.75° @ 6,650'</u> |
| <u>2.50° @ 511'</u>   | <u>1.00° @ 2,418'</u> | <u>1.75° @ 4,115'</u> | <u>1.75° @ 6,898'</u> |
| <u>2.25° @ 542'</u>   | <u>1.75° @ 2,700'</u> | <u>1.25° @ 4,269'</u> | <u>1.25° @ 7,148'</u> |
| <u>2.25° @ 574'</u>   | <u>2.00° @ 2,793'</u> | <u>1.75° @ 4,426'</u> | <u>2.00° @ 7,398'</u> |
| <u>2.25° @ 605'</u>   | <u>2.00° @ 2,951'</u> | <u>1.50° @ 4,520'</u> | <u>2.25° @ 7,649'</u> |
| <u>1.75° @ 634'</u>   | <u>1.00° @ 3,000'</u> | <u>2.00° @ 4,646'</u> | <u>2.25° @ 7,838'</u> |
| <u>1.75° @ 698'</u>   | <u>1.75° @ 3,062'</u> | <u>1.50° @ 4,771'</u> | <u>1.75° @ 7,961'</u> |
| <u>1.25° @ 761'</u>   | <u>1.75° @ 3,125'</u> | <u>1.25° @ 4,927'</u> | <u>1.75° @ 8,087'</u> |
| <u>1.00° @ 856'</u>   | <u>1.50° @ 3,172'</u> | <u>1.50° @ 5,084'</u> | <u>1.50° @ 8,301'</u> |
| <u>1.00° @ 1,012'</u> | <u>1.50° @ 3,265'</u> | <u>1.75° @ 5,240'</u> | <u>1.75° @ 8,797'</u> |
| <u>1.25° @ 1,200'</u> | <u>1.25° @ 3,422'</u> | <u>1.25° @ 5,396'</u> | <u>4.00° @ 9,297'</u> |
| <u>1.25° @ 1,389'</u> | <u>1.75° @ 3,674'</u> | <u>1.50° @ 5,647'</u> | <u>3.75° @ 9,548'</u> |
| <u>1.25° @ 1,605'</u> | <u>1.25° @ 3,768'</u> | <u>1.75° @ 5,898'</u> | <u>2.00° @ 9,997'</u> |

By Mary A. Phillips

Subscribed and sworn to before me this 14th day of October, 1998



Commission expires: 9/25/99

Kathleen Rogers

Notary Public Kathleen Roper

Midland County, Texas

