

WELL NAME AND NUMBER Tomcat "15" Federal #1 Unit L
1980/S & 660/W
 LOCATION Section 15, T-23-S, R-32-E, Lea County, New Mexico 30-025-33801
 OPERATOR Penwell Energy, Inc., 600 N. Marienfeld, Suite 1100, Midland, Texas 79701
 DRILLING CONTRACTOR TMBR/Sharp Drilling, Inc., P.O. Drawer 10970, Midland, Texas 79702

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>.25° @ 260'</u>	<u>.75° @ 4,108'</u>	<u>.25° @ 8,010'</u>	<u>2.25° @ 11,555'</u>
<u>.25° @ 490'</u>	<u>1.00° @ 4,202'</u>	<u>.25° @ 8,448'</u>	<u>1.75° @ 11,630'</u>
<u>.25° @ 618'</u>	<u>.75° @ 4,244'</u>	<u>1.00° @ 8,903'</u>	<u>1.00° @ 11,722'</u>
<u>.25° @ 922'</u>	<u>1.00° @ 4,305'</u>	<u>1.25° @ 9,183'</u>	<u>2.00° @ 11,898'</u>
<u>.50° @ 1,420'</u>	<u>1.25° @ 4,399'</u>	<u>1.00° @ 9,507'</u>	<u>1.25° @ 11,942'</u>
<u>.75° @ 1,746'</u>	<u>1.75° @ 4,513'</u>	<u>2.50° @ 9,998'</u>	<u>1.25° @ 12,066'</u>
<u>.25° @ 2,248'</u>	<u>1.75° @ 4,576'</u>	<u>2.50° @ 10,129'</u>	<u>1.50° @ 12,191'</u>
<u>.25° @ 2,654'</u>	<u>1.75° @ 4,669'</u>	<u>2.00° @ 10,223'</u>	<u>2.00° @ 12,410'</u>
<u>1.00° @ 3,109'</u>	<u>1.00° @ 4,714'</u>	<u>2.00° @ 10,368'</u>	<u>1.00° @ 12,624'</u>
<u>1.00° @ 3,369'</u>	<u>1.00° @ 5,225'</u>	<u>1.75° @ 10,473'</u>	<u>1.25° @ 13,018'</u>
<u>1.25° @ 3,639'</u>	<u>1.00° @ 5,703'</u>	<u>1.00° @ 10,570'</u>	<u>1.25° @ 13,377'</u>
<u>1.50° @ 3,746'</u>	<u>.75° @ 6,174'</u>	<u>.75° @ 10,757'</u>	<u>.75° @ 13,804'</u>
<u>2.00° @ 3,889'</u>	<u>.25° @ 6,607'</u>	<u>2.00° @ 11,195'</u>	<u>1.00° @ 14,081'</u>
<u>1.25° @ 3,951'</u>	<u>.75° @ 7,057'</u>	<u>2.25° @ 11,369'</u>	<u>1.00° @ 14,289'</u>
<u>1.75° @ 4,046'</u>	<u>.75° @ 7,542'</u>	<u>2.00° @ 11,443'</u>	<u>1.00° @ 14,639'</u>

Drilling Contractor TMBR/Sharp Drilling, Inc.

By

Jeff Phillips
 Jeff Phillips, Engineering Manager
 day of June, 19 97

Subscribed and sworn to before me this 3rd



Kathleen Roper
 Notary Public Kathleen Roper

Commission expires: 9/25/99

Midland County, Texas