

September 11, 1997

WELL NAME AND NUMBER:
LOCATION:
OPERATOR:
DRILLING CONTRACTOR:

THOMAS LONG #A-3
SEC.11 T22S R37E
JOHN HENDRIX CORPORATION
PATTERSON DRILLING CO.

Unit M
430/S & 560/W
30-025-34035

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:

DEGREE AND DEPTH	DISP.	DEGREE AND DEPTH	DISP.	DEGREE AND DEPTH	DISP.
LENGTH		LENGTH		LENGTH	
0.50	213 1.86	0.75 499	2107 6.53	0.75 500	4184 6.54
0.50 506	719 4.41	1.00 490	2597 8.55	0.50 492	4676 4.29
0.75 399	1118 5.22	0.75 589	3186 7.71	0.75 500	5176 6.54
0.25 500	1618 2.18	0.75 498	3684 6.51	1.00 927	6103 16.17
					Cum. Displacement 76.51

Drilling Contractor: PATTERSON DRILLING CO.

By: Billy Jensen
Billy Jensen

Subscribed and sworn to before me on this 11th day of September, 1997

My Commission Expires:
June 30, 2001

Mary G. Henson
Mary G. Henson