

October 15, 1998

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

C.T. BATES #4
SEC.10 T26S R37E
DOYLE HARTMAN
PATTERSON DRILLING CO.

Unit N
660/5 & 2145/W
30-025-34404

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		DEGREE AND DEPTH		DEGREE AND DEPTH	
0.50	253	0.25	1136	2.00	2669
0.25	527	0.25	1437	1.75	3073
MR	1126	1.50	2213	4.00	3635

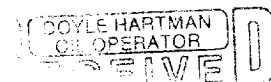
Drilling Contractor:
Patterson Drilling Company

By: Billy Jensen
Billy Jensen

Subscribed and sworn to before me on this 15th day of Oct., 1998

My Commission Expires: June 30, 2001

Mary G. Henson
Mary G. Henson



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