

OCTOBER 23, 1997

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

HANNAH STATE #1  
Sec. 24 T16S R34E  
ELK OIL COMPANY  
PATTERSON DRILLING

Unit B  
660/N & 1980/E  
30-025-34085

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	
0.75	394	1.00	4075	1.00	8973
0.50	682	0.75	4473	0.25	9430
0.50	977	1.00	4932	0.50	9873
0.75	1322	1.25	5453	0.75	10449
1.00	1667	1.25	5800	1.50	11000
0.25	2073	0.75	6195	0.75	11378
0.75	2481	1.00	6685	0.75	11870
0.25	2755	1.25	7177	1.00	12364
0.75	3087	1.00	7640	0.75	12887
0.50	3486	1.00	8130	1.25	13084
1.00	3884	0.25	8626	1.00	13230

Drilling Contractor: PATTERSON DRILLING

By: Billy Jensen  
Billy Jensen

Subscribed and sworn to before me this 23rd day of October, 1997

My Commission Expires:  
June 30, 2001

Mary G. Henson  
Mary G. Henson