

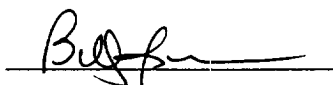
June 11, 1998

WELL NAME AND NUMBER: SHUGART FED #28-1
LOCATION: SEC 28 T18S R31E
OPERATOR: UMC PETROLEUM
DRILLING CONTRACTOR: PATTERSON DRILLING CO.

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:

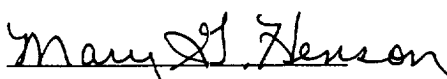
<u>DEGREE AND DEPTH</u>		<u>DEGREE AND DEPTH</u>		<u>DEGREE AND DEPTH</u>	
0.50	261	1.00	5428	2.00	8984
0.25	504	1.00	6015	2.00	9171
0.75	800	1.25	6320	1.25	9360
0.50	1270	1.00	5709	1.25	9549
0.75	1770	2.00	6566	1.00	9768
1.25	2150	1.25	6687	0.50	9956
0.75	2336	1.25	6810	0.50	10144
0.25	2524	1.50	6994	0.50	10332
1.00	2713	1.50	7209	NP	10459
0.50	2900	2.00	7433	0.75	10553
1.50	3212	2.25	7556	0.75	10740
1.00	3299	2.50	7804	0.50	10927
0.75	3693	2.25	7929	0.50	11179
0.75	3933	2.50	8051	0.75	11398
0.25	4215	2.75	8304	1.25	11712
0.25	4499	2.00	8423	0.25	11940
0.25	4800	1.75	8672		
0.75	5112	1.75	8797		

Drilling Contractor: PATTERSON DRILLING

By: 
Billy Jensen

Subscribed and sworn to before me on this 11th day of June, 1998

My Commission Expires:
June 30, 2001


Mary G. Henson