

May 7, 1998

WELL NAME AND NUMBER: BARCLAY FEDERAL #4
LOCATION: SEC.12 T23S R31E
OPERATOR: ARCO
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:

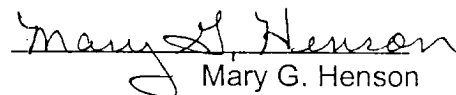
DEGREE AND DEPTH		DEGREE AND DEPTH		DEGREE AND DEPTH	
1.00	258	0.75	3080	0.75	4766
1.00	473	1.00	3329	1.00	5260
0.25	850	1.00	3581	1.00	5636
0.75	1040	1.75	3736	0.75	6138
1.00	1419	1.75	3891	1.25	6616
0.75	1732	2.50	4057	1.00	7110
0.50	1993	1.75	4141	0.75	7498
1.00	2265	2.00	4266	1.50	7998
0.50	2828	1.50	4420	1.00	8450

Drilling Contractor:
Patterson Drilling Company

By: 
Billy Jensen

Subscribed and sworn to before me on this 7th day of May 1998.

My Commission Expires: June 30, 2001


Mary G. Henson