February 11, 1998

LOCATION: OPERATOR:

WELL NAME AND NUMBER:

DRILLING CONTRACTOR:

MAC #7-19 #1 - GSEC.19 T16S R36E 2523 / W = 2370 / ECHESAPEAKE OPERATING PATTERSON DRILLING $30 \cdot 025 - 34250$

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 DEGR	REE AND DEPTH	DEGREE AND DEPTH	
0.752481.000.254891.000.009011.250.5013310.500.252195N44E1.250.252692N39E0.501.253186N50E0.501.753686S81E0.501.253936N82E0.501.004423N40E0.50	 4900 N45E 5395 N40E 5833 N4E 6290 S87E 6787 N74E 7185 S54E 7676 N46E 8173 S70E 8790 N74E 9195 N25E 	0.2595200.5099002.00101692.00103536.20106936.00107225.70107354.5011262	S61E N11W S3780W S65SW S687W S687W S57W S66.3W S71W

Drilling Contractor: PATTERSON DRILLING.

By:______Billy Jensen

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

My Commission Expires: June 30, 2001

Mary G. Henson

600 - 33

Carry and