January 15, 1998

| WELL NAME AND NUMBER: | LORENA #1-1 SEC.1 TI6S R36E Unit P CHESAPEAKE OPERATING 2927/5 9 1104/E |
|-----------------------|---|
| OPERATOR: | |
| DRILLING CONTRACTOR: | PATTERSON DRILLING 30-025-34230 |

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 | | | |
|------------------|------|------------------|------|------|------------------|------|-------|------|
| 0.25 | 490 | | 0.75 | 4385 | N44E | 0.75 | 8434 | S42W |
| 0.50 | 987 | | 0.50 | 4814 | S87E | 0.75 | 8778 | S48W |
| 0.75 | 1197 | | 1.00 | 5314 | S85E | 0.50 | 9204 | S46W |
| 0.75 | 1693 | | 0.50 | 5811 | S49E | 1.50 | 9610 | N81W |
| 1.50 | 2171 | | 0.50 | 6368 | S13E | 1.00 | 10104 | S25W |
| 0.50 | 2621 | S59W | 1.00 | 6829 | S22W | 1.50 | 10534 | S24W |
| 1.00 | 3121 | N41E | 1.25 | 7569 | S20W | 1.00 | 10976 | S12W |
| 1.00 | 3616 | N55E | 0.75 | 7969 | S46W | 2.50 | 11455 | S29W |
| 1.00 | 4111 | N25E | | | | | | |

Drilling Contractor: PATTERSON DRILLING.

By: Bulf

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

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My Commission Expires: June 30, 2001

Mary G. Henson