

APR 27 1998

April 23, 1998

WELL NAME AND NUMBER:

CARLISLE #1-7

#1 Unit L

LOCATION:

Sec 7 T16S R36E

2238/59 1087/10

OPERATOR:

CHESAPEAKE OPERATING

DRILLING CONTRACTOR:

PATTERSON DRILLING

30-025-34340

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	167		1.25	3454	S9E	0.75	8038	N8W
0.75	314		0.25	3932	S50E	1.00	8541	N13E
0.75	456		0.50	4400	S71E	0.25	9033	S14W
0.50	942	N56W	0.00	4929	NO	0.50	9524	N38W
0.50	1438	N33E	0.25	5426	N23E	0.50	10016	N76W
0.25	1944	S66W	0.25	6439	N50E	0.50	10996	N36W
1.50	2428	S16E	0.50	6940	N63E	1.00	11400	
0.75	2924	N2W	0.50	7486	N78W			

Drilling Contractor: PATTERSON DRILLING.

By: Billy Jensen
Billy Jensen

Subscribed and sworn to before me on this 23rd day of April, 1998.

My Commission Expires:
June 30, 2001

Mary G. Henson
Mary G. Henson