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30-025-38242

JUL 03 2007

WELL NAME AND NUMBER DINWIDDIE 23 FEDERAL #1

LOCATION 23-25S-35E, LEA County, New Mexico

OPERATOR Chesapeake Operating, Inc.

DRILLING CONTRACTOR Nomac Drilling Corporation

BY: eg

H-1400/N 9 660/E

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation test and obtained the following results:

Measured Depth	Course Length	Angle of Inclination	Displacement Per Hundred Feet	Course Displacement	Accumulative Displacement
326	3.26	1	1.75	5.69	5.69
635	3.09	2	3.49	10.78	16.47
846	2.11	1 ½	2.62	5.52	22.00
1146	3.	¾	1.31	3.93	25.92
1460	3.14	¾	1.31	4.11	30.03
1760	3.	½	0.87	2.62	32.65
2060	3.	1 ¼	2.18	6.54	39.20
2360	3.	¾	1.31	3.93	43.12
2660	3.	3.	5.23	15.70	58.82
2867	2.07	2 ¾	4.80	9.93	68.76
3075	2.08	3 ¾	6.54	13.60	82.36
3169	.94	3 ¼	5.67	5.33	87.69
3263	.94	3.	5.23	4.92	92.61
3356	.93	3.	5.23	4.87	97.48
3449	.93	2 ½	4.36	4.06	101.53
3575	1.26	¾	1.31	1.65	103.18
3669	.94	1 ½	2.62	2.46	105.64
3950	2.81	3 ¾	6.54	18.38	124.02
4044	.94	3.	5.23	4.92	128.94
4139	.95	1 ½	2.62	2.49	131.43
4327	1.88	3.	5.23	9.84	141.27
4315	-0.12	2	3.49	-0.42	140.85
4697	3.82	3.	5.23	19.99	160.84
5093	3.96	2 ½	4.36	17.27	178.11
5285	1.92	2.	3.49	6.70	184.81

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5566	2.81	3.	5.23	14.71	199.52
5753	1.87	2 ½	4.36	8.16	207.68
5938	1.85	2.	3.49	6.46	214.13
6130	1.92	2 ½	4.36	8.37	222.51
6317	1.87	1 ¾	3.05	5.71	228.22
6505	1.88	2.	3.49	6.56	234.78
6787	2.82	2.	3.49	9.84	244.62

DRILLING CONTRACTOR: NOMAC DRILLING CORPORATION

BY: Steve Lannon

TITLE: Drilling Manager

Subscribed and sworn to before me this 3rd day of July, 2007



Joann Horn
NOTARY PUBLIC

Canadian OK
COUNTY STATE

My Commission Expires: 3/18/2010