

Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401
Midland, Texas 79701

DEC 17 1999

December 14, 1999

Chesapeake Operating, Inc.
Drilling Department
P O Box 14880
Oklahoma City, OK 73113-0880

RE: Inclination Report
Chesapeake '99 B Medlin #10
Sec 10; T-16-S; R-37-E

#1 - E - 10 - 16 - 37
30-025-34685

Gentlemen:

The following is an inclination survey on the above referenced well located in Lea County, New Mexico:

227' - 0.75	3828' - 1.50	8461' - 0.75
440' - 1.00	4051' - 1.25	8960' - 1.25
759' - 1.25	4303' - 1.00	9122' - 1.25
980' - 0.50	4842' - 0.75	9656' - 2.00
1230' - 0.50	5158' - 0.75	9814' - 1.50
1705' - 0.50	5497' - 0.50	10048' - 1.50
1926' - 0.50	5888' - 0.50	10416' - 1.50
2180' - 0.50	6270' - 0.25	10725' - 1.00
2622' - 0.50	6747' - 0.50	11215' - 0.75
2843' - 0.25	7226' - 0.50	11705' - 0.50
3321' - 1.75	7797' - 0.75	12200' - 0.25
3575' - 1.50	8271' - 1.00	

Sincerely,

Rebecca Edwards

Rebecca A. Edwards
Administrative Assistant

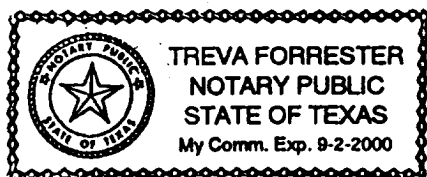
STATE OF TEXAS)
)
COUNTY OF MIDLAND)

Rebecca A. Edwards acknowledged the foregoing before me this 14th day of December 1999.

MY COMMISSION EXPIRES:

Treva Forrester

NOTARY PUBLIC



CERTIFIED SURVEYS

**CHESAPEAKE
ENERGY CORP.**

B. MEDLIN #1-10

**SEC. 10 - T16S - R37E
LEA COUNTY, NEW MEXICO**

SUR: 2133/N 4 633/W
BHL: 1987/N 4 613/W

30-025-34685
NOVEMBER 19, 1999

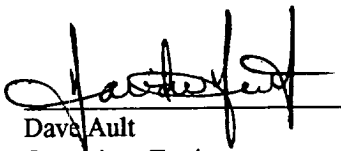
November 19, 1999

Re: Chesapeake Energy Corporation
B. Medlin #1-10
Sec. 10-T16S-R37E
Lea County, New Mexico

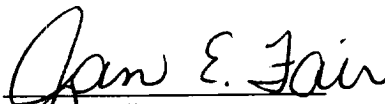
Enclosed please find the original surveys performed on the referenced well by Dave Ault with Chesapeake Energy Corporation.

<u>Name & Title of</u> <u>Surveyor</u>	<u>Drainhole</u> <u>Number</u>	<u>Surveyed Depths</u>	<u>Type of Survey</u>
Dave Ault	Original Hole	0' - 12170' 12170' - 12200'	Single Shot Straight Line Projection

If any other information is required, please contact the undersigned at (405) 848-8000


Dave Ault
Operations Engineer

My Commission Expires: My Commission Expires July 22, 2000


Notary Public

Survey Report

Date: 11/19/1999

Time: 9:34 am

Wellpath ID: (SURVEYS)

Date Created: 10/14/1999

Last Revision: 11/15/1999

Calculated using the Minimum Curvature Method

Computed using PDS VER2.2.8

Vertical Section Plane: N 0.00 E

Survey Reference: WELLHEAD

Vertical Section Reference: WELLHEAD

Closure Reference: WELLHEAD

TVD Reference: WELLHEAD

CHESAPEAKE OPERATING, INC.
LEA COUNTY, NEW MEXICO
S/2 NW/4 SEC. 10 - T16S - R37E
B. MEDLIN #1-10
(SURVEYS)

Measured Depth (ft)	Incl (deg.)	Drift Dir. (qdeg)	TVD (ft)	T O T A L Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (qdeg)	DLS (dg/100ft)
SHL (2133' FNL & 633' FWL, SEC. 10 - T16S - R37E)							
0.00	0.00	N 0.00 E	0.00	0.00 N	0.00 E	0.00@ N 0.00 E	0.00
THE FOLLOWING TOTCO SURVEYS HAVE ASSUMED DIRECTION							
227.00	0.75	N 17.00 E	226.99	1.42 N	0.43 E	1.49@ N 17.00 E	0.33
440.00	1.00	N 17.00 E	439.97	4.53 N	1.39 E	4.74@ N 17.00 E	0.12
THE FOLLOWING ARE SPERRY-SUN MAG S.S. SURVEYS							
759.00	1.25	N 17.00 E	758.91	10.52 N	3.22 E	11.00@ N 17.00 E	0.08
980.00	0.50	N 1.00 E	979.88	13.79 N	3.94 E	14.34@ N 15.94 E	0.35
1230.00	0.50	N 64.00 E	1229.87	15.36 N	4.94 E	16.13@ N 17.82 E	0.21
1705.00	0.50	N 40.00 E	1704.85	17.86 N	8.13 E	19.62@ N 24.49 E	0.04
1926.00	0.50	N 14.00 E	1925.84	19.53 N	8.99 E	21.50@ N 24.71 E	0.10
2180.00	0.50	N 15.00 E	2179.83	21.68 N	9.54 E	23.68@ N 23.76 E	0.00
2622.00	0.50	N 59.00 E	2621.82	24.53 N	11.69 E	27.18@ N 25.48 E	0.08
2843.00	0.25	N 73.00 E	2842.81	25.17 N	12.98 E	28.32@ N 27.28 E	0.12
3121.00	1.75	N 69.00 E	3120.76	26.87 N	17.52 E	32.08@ N 33.11 E	0.54
3575.00	1.50	S 51.00 E	3574.61	25.61 N	28.61 E	38.40@ N 48.17 E	0.36
3828.00	1.50	S 50.00 E	3827.53	21.40 N	33.72 E	39.94@ N 57.60 E	0.01
4061.00	1.25	N 52.00 E	4060.48	21.00 N	38.06 E	43.47@ N 61.11 E	0.75
4303.00	1.00	N 58.00 E	4302.43	23.75 N	41.93 E	48.19@ N 60.48 E	0.11
4842.00	0.75	N 31.00 E	4841.37	29.26 N	47.74 E	56.00@ N 58.49 E	0.09
5158.00	0.75	N 25.00 E	5157.34	32.91 N	49.68 E	59.59@ N 56.48 E	0.02
5497.00	0.50	N 11.00 W	5496.32	36.37 N	50.33 E	62.10@ N 54.15 E	0.13
5888.00	0.50	N 51.00 W	5887.31	39.12 N	48.68 E	62.46@ N 51.21 E	0.09
6270.00	0.25	N 51.00 W	6269.30	40.70 N	46.74 E	61.97@ N 48.95 E	0.07
6747.00	0.50	S 21.00 E	6746.29	39.41 N	46.68 E	61.09@ N 49.83 E	0.15
7226.00	0.50	N 86.00 W	7225.28	37.60 N	45.34 E	58.91@ N 50.33 E	0.18
7997.00	0.75	N 81.00 W	7996.24	38.63 N	37.00 E	53.49@ N 43.77 E	0.03
8271.00	1.00	N 55.00 E	8270.22	40.28 N	37.19 E	54.82@ N 42.72 E	0.59
8433.00	0.75	S 85.00 W	8432.22	41.00 N	37.29 E	55.42@ N 42.29 E	1.04

Halliburton Drilling System

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Date: 11/19/1999

Wellpath ID: (SURVEYS)

Survey Report

Measured Depth (ft)	Incl (deg.)	Drift Dir. (qdeg)	TVD (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (qdeg)		DLS (dg/100ft)
8960.00	1.25	S 89.00 W	8959.13	40.60 N	28.11 E	49.38@	N 34.70 E	0.10
9122.00	1.25	S 75.00 W	9121.10	40.11 N	24.63 E	47.07@	N 31.56 E	0.19
9656.00	2.00	S 83.00 W	9654.88	37.47 N	9.76 E	38.72@	N 14.60 E	0.15
9814.00	1.50	S 77.00 W	9812.80	36.66 N	5.01 E	37.00@	N 7.78 E	0.34
10048.00	1.50	S 84.00 W	10046.72	35.66 N	1.02W	35.67@	N 1.64 W	0.08
10416.00	1.50	S 85.00 W	10414.60	34.73 N	10.61W	36.32@	N 16.99 W	0.01
10700.00	1.00	N 76.00 W	10698.53	35.01 N	16.72W	38.79@	N 25.53 W	0.23
11215.00	0.75	N 23.00 W	11213.48	39.20 N	22.40W	45.14@	N 29.74 W	0.16
11705.00	0.50	N 39.00 E	11703.45	43.81 N	22.30W	49.16@	N 26.98 W	0.14
LAST SURVEY @ 12170' MD								
12170.00	0.25	N 73.00 E	12168.44	45.68 N	20.06W	49.89@	N 23.70 W	0.07
STRAIGHT LINE PROJECTION TO TD @ 12200' MD								
12200.00	0.25	N 73.00 E	12198.44	45.72 N	19.93W	49.88@	N 23.55 W	0.00

