

Results of Directional Survey

API number:	30-025-34216	SIDE TRACK 1
OGRID:		Operator: CHESAPEAKE ENERGY
		Property: MINNIE 6 # 1

surface	ULSTR: B	06	T 16S	R 37E
		916 FNL	1991 FEL	

BH Loc	ULSTR: B	06	T 16S	R 37E
		885 FNL	2093 FEL	

	MD	N/S	E/W	VD
TOP PERFS/OH		#DIV/0!	#DIV/0!	#DIV/0!
BOT PERFS/OH		#DIV/0!	#DIV/0!	#DIV/0!

NEXT TO LAST	11140	75.90	-73.02	11133.90
LAST READING	11509	60.44	-82.89	11502.42
TD	12220	30.65	-101.91	12212.50

Surface Location	916	FN	1991	FE
Projected BHL	885	FN	2093	FE
Location of				
Top Perfs/OH	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Bottom Perfs/OH	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

SUMMARY of Subsurface Locations

Surface Location	B-06-16S-37E	916	FN	1991	FE	Vert. Depth
Top Perfs/OH	B-06-16S-37E	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Bottom Perfs/OH	B-06-16S-37E	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Projected TD	B-06-16S-37E	885	FN	2093	FE	12212.50

CERTIFIED SURVEYS

CHESAPEAKE ENERGY CORP.

MINNIE #1-6

SEC. 6-T16S-R37E

LEA COUNTY, NEW MEXICO

30-025-34216

JANUARY 20, 1998



The Future Is Working Together.



HALLIBURTON
ENERGY SERVICES

Drilling Systems

9800 West Reno / Oklahoma City, OK 73127 / 405-324-2222

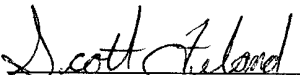
January 20, 1998

Re: Chesapeake Energy
Minnie #1-6
Sec. 6-T16S-R37E
Lea County, New Mexico

Enclosed please find the original surveys performed on the referenced well by Halliburton Energy Services.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Larry Mooney Directional Driller	Original Hole	9483' - 10838'	01/02/98 - 01/07/98	Directional/MWD

If any other information is required, please contact the undersigned at the letterhead address and phone number.


Scott Feland
Well Planner

My Commission Expires: 11-30-99


Shannon Lee
Notary Public



POST WELL SUMMARY

From January 2, 1998 To January 7, 1998

Page 1
1/20/98 11:09:57 am
Version REV2.2.2

Job No.:
Operator: **CHESAPEAKE ENERGY**
Field: **MINNIE #1-6**
Well: **SURVEYS**

AFE No.: **SEC. 6-T16S-R37E**
Location: **LEA COUNTY, NEW MEXICO**
MWD Operator(s): **JERRY MORGAN**
Dir'l Driller(s): **LARRY MOONEY**

Company Man: **BUDDY FIELDS**

FOOTAGE DRILLED	DRILLING HOURS	AVERAGE ROP	DRILLING DAYS	AVERAGE FTG/DAY	AVERAGE DRILLING HRS/DAY
1358.00	45.92	29.58	4.46	304.60	10.30

RUN NO.	BHA NO.	DEPTH IN	ANGLE IN	DEPTH OUT	ANGLE OUT	FOOTAGE DRILLED	DRILLING HOURS	AVERAGE ROP	AVERAGE BUILD	FLOW gpm	ON-BOTTOM psi	MAX. BH TEMP °F	MOTOR SERIAL NO.
1	1	9540.00	0.58	10898.00	-----	1358.00	45.92	29.58	-----	0	0	0.00	HT64071

RUN NO.	BHA NO.	BIT SIZE(in)	BIT MODEL	BIT NOZZLES (/32nd)	MOTOR DESCRIPTION	STAB O.D.	DISTANCE CTR TO BIT	REASON FOR TRIP
1	1	7-7/8"	F57	12 12 12	6-1/2" SLO-SPEED 5/6 X 1.50° bend	-----	-----	<undefined>

RUN NO.	BHA NO.	SLIDE FTG	ROTATE FTG	SLIDE HRS	ROTATE HRS	SLIDE ROP	ROTATE ROP	CIRCULATE HRS	COMMENTS
1	1	113.00	1245.00	6.00	39.92	18.83	31.19	1.00	

Halliburton Drilling Systems

Page 1

Survey Report

Date: 1/20/98
Time: 11:43 am
Wellpath ID: SURVEYS
Date Created: 1/3/98
Last Revision: 1/20/98

Calculated using the Minimum Curvature Method
Computed using WIN-CADDS REV2.2.2
Vertical Section Plane: N 45.00 W

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

CHESAPEAKE ENERGY CORP.
MINNIE #1-6
LEA COUNTY, NEW MEXICO
SEC. 6-T16S-R37E

SURVEYS

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets		DLS (dg/100ft)
						(ft)	(ft)	
SINGLE SHOT SURVEYS TO 9457'								
2323.00	0.50	N 85.00 E	0.00	2323.00	0.00	0.00 N	0.00 E	0.00
2677.00	0.50	N 84.00 E	354.00	2676.99	-1.96	0.30 N	3.07 E	0.00
3147.00	1.00	N 90.00 E	470.00	3146.94	-6.16	0.51 N	9.22 E	0.11
3559.00	0.75	N 34.00 E	412.00	3558.90	-8.18	2.75 N	14.32 E	0.21
4105.00	0.25	N 71.00 W	546.00	4104.89	-6.43	6.10 N	15.19 E	0.16
4324.00	0.50	N 46.00 W	219.00	4323.88	-5.05	6.92 N	14.05 E	0.13
5143.00	1.75	N 6.00 E	819.00	5142.72	6.40	21.84 N	12.79 E	0.18
5373.00	2.00	N 66.00 W	230.00	5372.63	12.36	26.96 N	9.49 E	0.96
5813.00	2.50	N 21.00 W	440.00	5812.32	28.29	39.04 N	0.97W	0.41
6063.00	2.25	N 16.00 W	250.00	6062.10	37.56	48.85 N	4.27W	0.13
6493.00	2.00	N 1.00 W	430.00	6491.81	50.34	64.47 N	6.73W	0.14
6928.00	2.00	N 11.00 W	435.00	6926.55	62.10	79.51 N	8.31W	0.08
7364.00	1.75	N 11.00 W	436.00	7362.31	73.92	93.51 N	11.03W	0.06
7802.00	1.75	N 9.00 E	438.00	7800.11	83.40	106.68 N	11.26W	0.14
8238.00	1.50	N 4.00 E	436.00	8235.94	91.06	118.95 N	9.82W	0.07
8603.00	1.25	N 19.00 E	365.00	8600.83	95.94	127.48 N	8.19W	0.12
8957.00	1.25	N 28.00 E	354.00	8954.75	98.76	134.54 N	5.12W	0.06
9457.00	1.25	N 34.00 E	500.00	9454.63	101.39	143.88 N	0.49 E	0.03
FIRST MWD SURVEY / K.O.P. @ 9540'								
9483.00	1.20	N 29.90 E	26.00	9480.62	101.52	144.35 N	0.78 E	0.39
BHA #1 IN @ 9540' 6 1/2" SLO SPEED 7 7/8" F57 BIT								
9515.00	1.00	N 35.40 E	32.00	9512.62	101.65	144.87 N	1.11 E	0.71

Halliburton Drilling Systems

Page 2

Date: 1/20/98

Survey Report

Wellpath ID: SURVEYS

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
9545.00	0.50	N 31.50 E	30.00	9542.62	101.73	145.19 N	1.33 E	1.67
9576.00	0.10	S 68.70 W	31.00	9573.62	101.77	145.30 N	1.37 E	1.88
9607.00	0.50	S 50.50 W	31.00	9604.62	101.79	145.20 N	1.25 E	1.31
9639.00	1.10	S 50.10 W	32.00	9636.61	101.83	144.92 N	0.90 E	1.88
9669.00	1.70	S 55.50 W	30.00	9666.60	101.94	144.48 N	0.31 E	2.05
9701.00	1.90	S 51.10 W	32.00	9698.59	102.08	143.88 N	0.49W	0.76
9732.00	2.20	S 50.70 W	31.00	9729.57	102.20	143.18 N	1.35W	0.97
9762.00	2.30	S 49.50 W	30.00	9759.54	102.30	142.42 N	2.25W	0.37
9791.00	2.30	S 49.50 W	29.00	9788.52	102.39	141.67 N	3.14W	0.00
9823.00	2.70	S 56.80 W	32.00	9820.49	102.60	140.84 N	4.26W	1.60
9854.00	2.90	S 55.60 W	31.00	9851.45	102.89	139.99 N	5.52W	0.67
9886.00	2.90	S 53.70 W	32.00	9883.41	103.16	139.06 N	6.84W	0.30
9918.00	3.20	S 53.60 W	32.00	9915.37	103.42	138.05 N	8.21W	0.94
9949.00	3.90	S 54.30 W	31.00	9946.31	103.72	136.92 N	9.76W	2.26
9981.00	4.10	S 54.90 W	32.00	9978.23	104.09	135.63 N	11.58W	0.64
10012.00	3.90	S 53.90 W	31.00	10009.16	104.44	134.37 N	13.34W	0.68
10044.00	4.00	S 55.30 W	32.00	10041.08	104.81	133.09 N	15.13W	0.43
10074.00	4.60	S 56.90 W	30.00	10070.99	105.25	131.84 N	17.00W	2.04
10105.00	4.70	S 56.90 W	31.00	10101.89	105.77	130.47 N	19.11W	0.32
10135.00	4.60	S 57.80 W	30.00	10131.79	106.29	129.15 N	21.16W	0.41
10166.00	4.50	S 56.70 W	31.00	10162.70	106.81	127.82 N	23.22W	0.43
10198.00	4.20	S 56.10 W	32.00	10194.60	107.29	126.48 N	25.25W	0.95
10229.00	4.30	S 58.30 W	31.00	10225.52	107.77	125.24 N	27.18W	0.62
10257.00	4.70	S 58.80 W	28.00	10253.43	108.29	124.09 N	29.05W	1.44
10288.00	5.10	S 57.10 W	31.00	10284.32	108.88	122.69 N	31.29W	1.37
10320.00	4.90	S 56.40 W	32.00	10316.20	109.45	121.16 N	33.63W	0.65
10351.00	4.70	S 59.40 W	31.00	10347.09	110.03	119.78 N	35.82W	1.04
10381.00	4.60	S 60.40 W	30.00	10376.99	110.65	118.56 N	37.93W	0.43
10413.00	4.50	S 61.70 W	32.00	10408.89	111.35	117.33 N	40.15W	0.45
10444.00	4.30	S 61.10 W	31.00	10439.80	112.02	116.19 N	42.24W	0.66
10475.00	4.30	S 50.90 W	31.00	10470.71	112.47	114.90 N	44.16W	2.46
10507.00	4.40	S 48.30 W	32.00	10502.62	112.66	113.32 N	46.00W	0.69
10539.00	4.30	S 52.10 W	32.00	10534.53	112.88	111.77 N	47.87W	0.95
10570.00	4.10	S 53.10 W	31.00	10565.45	113.18	110.39 N	49.67W	0.69
10601.00	4.00	S 49.20 W	31.00	10596.37	113.41	109.02 N	51.37W	0.95
10633.00	3.90	S 45.00 W	32.00	10628.29	113.50	107.52 N	52.99W	0.96

Halliburton Drilling Systems

Page 3

Date: 1/20/98

Survey Report

Wellpath ID: SURVEYS

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
10663.00	4.00	S 42.40 W	30.00	10658.22	113.45	106.02 N	54.42W	0.68
10695.00	4.20	S 38.90 W	32.00	10690.14	113.27	104.29 N	55.9CW	1.00
10725.00	4.40	S 31.80 W	30.00	10720.05	112.89	102.46 N	57.2CW	1.89
10755.00	4.50	S 31.70 W	30.00	10749.96	112.36	100.48 N	58.42W	0.33
10786.00	4.60	S 32.40 W	31.00	10780.87	111.81	98.39 N	59.73W	0.37
10818.00	4.60	S 33.20 W	32.00	10812.76	111.27	96.24 N	61.12W	0.20
10838.00	4.60	S 32.70 W	20.00	10832.70	110.93	94.89 N	61.99W	0.20
LAST MWD SURVEY @ 10838'								
11140.00	3.75	S 27.00 W	302.00	11133.90	105.30	75.90 N	73.02W	0.31
11509.00	2.00	S 43.00 W	369.00	11502.42	101.35	60.44 N	82.89W	0.52
STRAIGHT LINE PROJECTION TO TD @ 12220'								
12220.00	2.00	S 43.00 W	711.00	12212.99	100.48	42.29 N	99.81W	0.00

CHESAPEAKE ENERGY CORPORATION
MINNIE #1-6
LEA COUNTY, NEW MEXICO
SEC. 6 - T16S - R37E

