#1 of Two sheets.

DIAMOND DRILL TEST HOLES

SHORT MOUNTAIN COLLIERY

..Wiconisco Township, Dauphin, County, Penna..

Lykens Pa. Dec 1896

No. of Hole	Location	From	To	Dip of Hole	Dip of Vein	Section of Hole: Rock	Slate	Bone	Dirt	Coal	Total Length of Hole	Total Cost of Drilling	Cost per ft of Drilling	Date: Started	Finished
1	Bear Gap Tunnel Big Vein West 19'5 East Sta. 1567	Big Vein	Whites Vein	44°	46° S	57'3"	4'3"	0'5"	–	3'10"	65'11"	$55.29	$0.99	Sept 10-92	Sept 19-92
2	" " " " " East 74 East Sta 1571	Big Vein	Whites Vein	25°	65° S	52'5"	0'10"		1'5"		54'6	38.56	0.71	" 20-92	" 26-92
3	" " " " " East 74 East Sta 1571	Big Vein	Little Vein	25°	65° S	32'7"	35'10"		1'8"		70'1"	44.97	0.63 2	" 27-92	Oct 6-92
4	" " " " " West 10' East Sta 1567	Big Vein	Little Vein	46°	44° S		15'00"		7'4"		22'4"	19.29	0.86 3	Oct. 7-92	" 10-92
5	" " " " " West 170' West sta 1456	Big Vein	Whites Vein	45°	45° S	51'8"	5'9"		1'8"		58'4"	51.76	0.88 6	" 11-92	" 31-92
6	" " " " " West 170' West sta 1456	Big Vein	Little Vein	45°	45° S		85'0"		13'7"		98'7	51.44	0.52 4	Nov 1-92	Nov 9-92
7	No 4 Slope Level west	Big Vein		37°	51° N	87'9"	1'8"				89'5	139.66	1.56 4	" 10-92	Dec 20-92
8	No 1 Level Big Vein East 55' East sta. 233	Big Vein	Whites Vein	45°	45° N	65'5"	3'1"	0'3"	0'10"	4'9"	74'4"	151.78	2.04 1	Dec 28-92	Jan 30-93
9	Bear Gap Tunnel Big Vein East 10' West Sta. 1674	Big Vein	Whites Vein	20°	70° S	53'8"	1'2"			1'8"	56'6"	69.83	1.23 5	Jan 31-93	Feb 20-93
10	" " " " " " 10 West sta. 1674	Big Vein	Little Vein	20°	70° S	53'0"	0'11"		0'10"	0'3"	55'0"	42.93	0.78	Feb. 20-93	Mar 18-93
11	No 3 Level West No 1 Counter West Big vein 284' West x cut 23' West Sta 268	Big Vein	Whites Vein	60°	30° S	67'9"	5'0"	0'2"		1'4	74'3"	171.45	2.30 9	Mar 21-93	Apr 29-93
12	No 3 Level West No 4 Counter West East Plane 4' East Sta. 1554	Big Vein	Whites Vein	60°	30° S	53'5"	4'0"			0'2"	57'7"	86.62	1.50 4	May 1-93	May 16-93
13	No 3 Level West No 1 Counter West Big 45' West sta. 269	Big Vein	Whites Vein	58°	32° S	66'7"	2'6"	0'4"		4'3"	73'8"	126.25	1.71 3	" 17-93	June 8-93
14	No 3 Level West No 1 Counter Face Whites vein Gangway west		Whites Vein	Hor		27'6"	15'6"				43'0"	39.78	0.92 5	June 9-93	" 16-93
15	No 3 Level West No 1 Counter East 100' East sta. 1717	Big Vein	Little Vein	19°	45° N		10'6"			12'8"	23'2"	15.69	0.67 7	" 17-93	" 20-93
16	No 3 Level West No 5 Counter West Plane opposite sta. 1592	Big Vein	Whites Vein	70°	20° S	75'4"				2'10"	78'2"	103.41	1.32 2	" 22-93	July 13-93
17	No 3 Level West No 5 Counter West Plane opposite sta. 1592	Big Vein	Little Vein	70°	20° S	3'6"	32'1"			2'5"	38'0"	29.75	0.76 7	July 13-93	" 28-93
18	No 3 Level West No 6 Counter West 73' West sta. 1706	Big Vein	Whites Vein	78°	12° S	66'4"	1'0"			4'8"	72'0"	116.37	1.61 5	" 29-93	Sept 2-93
19	No 3 Level West No 6 Counter West 73' West sta 1706	Big Vein	Little Vein	78°	12° S		26'2"			5'10"	32'0"	24.82	0.77 5	Sept 4-93	" 7-93
20	Bear Gap Tunnel Big Vein West 5' East sta 1671	Big Vein	Whites Vein	32°	58° S	46'6			1'0"		47'6"	56.49	1.18 2	" 8-93	" 19-93
21	" " " " " " 122' West sta. 1626	Big Vein	Little Vein	45°	45° S	22'8"	21'8"				44'4"	67.99	1.53 5	" 20-93	Oct. 14-93
22	No 1 Drift Level Big Vein 72' West sta. 1624	Big Vein	Whites Vein	27°	63° N	73'11"	0'8"			0'5"	75'0"	101.37	1.35 3	Oct 26-93	Nov 16-93
23	" " " " " " 126.50' Inside Drift Mouth	Big Vein	Little Vein	27°	63° N		6'8"			3'0" (Poor)	9'8"	12.86	1.32 9	Nov 16-93	" 17-93
24	Foot Nanticoke Trial Slope	Big Vein		Hor	45° S	67'6"	18'2"	0'2"		2'8"	88'6"	162.00	1.83	Dec. 26-93	Feb 15-94
25	" " " "	Big Vein		44°	45° S	57'6"	6'10"	0'4"	0'10"	3'4"	69'3"	72.70	1.04 3	Feb. 16-94	Mar 1-94
26	No 3 Level West No 4 Counter West 29' West sta. 1886	Big Vein	Little Vein	50°	40° S		22'2		1'11"	1'9"	25'10"	26.02	1.00 1	Mar 2-94	" 7-94
27	No 1 Drift Level Big Vein 133' West sta 1626	Big Vein	Whites Vein	59°	31° N	70'1"	0'1"	0'3"		3'2"	73'7"	101.73	1.38 2	" 8-94	apr 5-94
28	" " " " " " 133' West sta. 1626	Big Vein	Little Vein	59°	31° N		15'5"		1'0"	5'7"	22'0"	17.69	0.84	apr 6-94	" 9-94
29	No 3 Level West No 2 Counter 50' Inside sta. 929	Big Vein	Little Vein	19°	71° N		16'10"			6'6"	23'4"	17.32	0.74 2	" 10-94	" 17-94
30	" " " No 4 " West 100' West sta. 1423	Big Vein	Whites Vein	25°	65° S	73'2"	0'8"			0'4"	74'2"	102.27	1.37 8	" 18-94	May 10-94
31	" " " No 2 " Opposite sta. 397	Big Vein	Whites Vein	66°	24° S	68'3"	0'3"			1'10"	70'4"	67.63	0.96 1	May 11-94	June 5-94
32	No 1 Drift Big Run Counter 123' West sta. 1762	Big Vein	Whites Vein	32°	58° N	78'10"	1'0"			0'8"	80'6"	72.99	0.90 6	June 6-94	" 20-94
33	" " " " " 123' West sta. 1762	Big Vein	Little Vein	32°	58° N		16'5"		0'4"	10'5"	27'2"	18.69	0.68 7	" 21-94	" 22-94
34	No 3 Level West No 3 Counter 37' East sta. 1356	Big Vein	Whites Vein	40°	50° S	58'2"	12'10"	0'3"	0'1"	2'5"	73'9"	60.53	0.82	" 25-94	July 7-94
35	" " " " " " " "	Big Vein	Little Vein	40°	50 S	23'6"	7'9"		5'9"		37'0"	23.52	0.63 5	July 9-94	" 12-94
36	" " " No 2 Counter 35' inside Plane	Big Vein	Little Vein	58°	32° S		22'3"			8'5"	30'8"	26.75	0.87 2	" 13-94	" 18-94
37	" " " No 1 " Opposite Sta 244	Big Vein	Little Vein	70°	30° S		4'11"			4'10"	9'9"	6.93	0.71	Nov 8-95	Nov 8-95
38	" " " " " 9	Big Vein	Little Vein	70°	30° S		11.0			4'8"	15'8"	12.46	0.79 4	" 9-95	" 13-95
39	Bear Gap Tunnel West 225' West sta. 1945	Big Vein	Whites Vein	33°	57° S	62'6"	4'5"	0'3"		2'10"	70'0"	75.88	1.08 4	" 16-95	Dec 3-95
40	No 1 Drift Big Run Counter Opposite sta. 1903	Big Vein	Whites Vein	26°	64° N	68'0"	3'8"	0'4"		3'6"	75'6"	80.42	1.06 5	Dec 4-95	Jan 7-96
41	" " " " " " "	Big Vein	Little Vein	26°	64° N		9'2"			4'6"	13'8"	11.66	0.85 2	" 16-95	Dec 17-95
42	" " " " 72' West Sta 1520	Big Vein	Little Vein	30°	60 N		20'6"		1'6"		22'0"	18.29	0.83 1	" 18-95	" 20-95
43	" Top of New Plane 65' South sta 13	Big Vein	Little Vein	86°	4° S		19'1"		0'3"	4'6" (Poor)	23'10"	19.29	0.80 9	Jan 8-96	Jan 10-96
44	Lykens Valley Drift 50' East Sta 1818	Whites Vein	#5 Vein	45°	45° N	7'9"	0'6"			0'9"	10'0"	14.69	1.46 9	" 11-96	" 14-96
45	" " " Opposite Sta 363	Little Vein	Zero Vein	55°	35° N	67'9"	11'1"				78'10"	77.59	0.98 4	" 15-96	" 29-96
46	#1 Level East " " 578	Whites vein	#5 Vein	45°	45° N	69'9"	5'9"			0'2"	75'8"	95.11	1.25 7	" 30-96	Feb 20-96
47	#1 Drift Level Slant 28' West Sta. 1873	Big Vein	Little Vein	77°	13° S		20'10"		0'6"	3'11"	25'3"	25.72	1.01 9	Feb 21-96	" 26-96
48	Bear Gap Tunnel, West, 65' West Sta 2011	Big Vein	Little Vein	30°	60° S	7'6"	13'9"		0'9"		22'0	16.29	0.74	Sept 7-96	Sept 10-96
49	" " " " 25' West " 1980	Big Vein	Little Vein	32°	58° S		19'11"		7'2"	0'5"	27'6"	19.23	0.69 9	" 11-96	" 14-96
50	#4 Slope Bottom West, at heading in Breast #27	Big Vein	Little Vein	48°	42° N	4'1"	9'3"				13'4"	12.86	0.96 4	" 14-96	" 15-96
51	Lykens Valley Drift, 23' East " 1976	Big Vein	Little Vein	15°	39° N		13'4"				13'4"	16.99	1.27 4	" 16-96	" 18-96
52	#3 Level west, Nanticoke 32' West " 2004	Big Vein	Little Vein	13°	77° N	35'4"			0'8"		36'0"	48.56	1.34 8	" 19-96	" 29-96
53	" " , " 23 " " 1920	Big Vein	Little Vein	32°	58° S		3'4"			5'0	8'4"	9.86	1.18 3	Oct 3-96	Oct 5-96
54	#4 Slope, Bottom, West, At Breast #45	Big Vein	Little Vein	70°	30° S		8'4"		4'2"		12.6"	15.09	1.20 7	" 6-96	" 8-96
55	" " " , at Heading in Br. #37	Big Vein	Little Vein	65°	25° S		10'9"			5'9"	16'6"	11.46	0.69 4	" 9-96	" 12-96
56	" " " , 45' up Breast #82	Big Vein	Little Vein	52°	38° S	11'8"	3'8"			5'4"	20'8"	16.09	0.77 8	" 13-96	" 15-96
57	" " #1 Counter , At Whites Vein X Cut	Big Vein	Little Vein	65°	25° S		7'0"				7'0"	13.26	1.89 4	" 16-96	" 17-96
58	" " , 75' West of " " "	Big Vein	Little Vein	65°	25° S		3'10"			6'2"	10'00"	8.85	0.88 5	" 19-96	" 20-96
59	" #2 " , West, At Breast #43	Big Vein	Little Vein	52°	38° S		4'6"			5'4"	9'10"	6.63	0.67 4	" 21-96	" 21-96
60	" " , " " " #9	Big Vein	Little Vein	55°	35° S		6'8"			4'0"	10'8"	6.63	0.62 1	" 22-96	" 22-96
61	" #3 " , In Breast #10	Big Vein	Little Vein	68°	22° S	2'8"	4'9"		0'7"		8'0"	13.26	1.65 7	" 23-96	" 24-96
62	Lykens Valley Drift, 63' East Sta. 1976	Big Vein	Little Vein	Level	39° N		24'10"	(2'2" In old workings)			27'0"	25.72	0.95 2	" 26-96	" 29-96
63	#1 Drift Whites Vein, Near Sta 16	Whites Vn	#5 Vein	66°	24° N	69'10	30'5"				100'3"	83.38	0.83 1	" 30-96	Nov 17-96
64	" #1 Counter, 100' East Sta 2020	Big Vein	Little Vein	65°	25° N		17'0	(1'0" In old works)			18'0	24.12	1.34	Nov 18-96	" 21-96
65	#3 Level West, #8 Counter 10' West, Sta. 1961	Big Vein	Little Vein	73°	17° S		12'10"			6'2"	19'0"	19.89	1.04 5	" 23-96	" 24-96
66	" " " 47' West, " 2024	Big Vein	Little Vein	73°	17° S		18'10			7'6"	26'4"	19.89	0.75 5	" 25-96	" 28-96
67	" " #1 " 45' " " 266	Big Vein	Whites Vn	66°	24° S	81'11"	1'6"			1'10"	85'3"	104.66	1.22 7	" 30-96	Dec. 21-96
68	" " #3 " 15' " " 1218	Big Vein	Whites Vein	35°	46° S	55'10"	10'2"			3'6"	69'6"	89.63	1.28 9	Dec. 22-96	Jan. 11-97

Remarks

Summary of Holes 1 to 47

	Total Cost	Cost per ft. Ave
19 Holes Big Vein to whites V.	$1700.65	$1.30 5
21 Holes Big Vein to Little vein	$534.08	$0.79 8
7 Holes Miscellaneous	$601.53	$1.32 5
Grand Total	$2836.26	$1.16 7

Summary Holes 1 to 67

	Total Cost	Cost per foot Ave
20 Holes Big Vn to W. V	$1805.31	$1.29 8
39 " " to L. V	$838.76	$0.85 9
8 " Miscellaneous	$684.91	$1.23 4
Total	$3328.98	$1.13 2