

**THIRTY-FIRST ANNUAL REPORT**  
OF THE  
**MARYLAND BUREAU OF MINES**  
OF THE  
**STATE OF MARYLAND**

**Board of Natural Resources**  
**Department of Geology, Mines and Water Resources**  
**JOSEPH T. SINGEWALD, JR., DIRECTOR**

**CALENDAR YEAR 1953**



TO  
**HON. THEODORE ROOSEVELT McKELDIN**  
**GOVERNOR OF MARYLAND**

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**FRANK T. POWERS**  
Director

LETTER OF TRANSMITTAL

*To His Excellency,*

HON. THEODORE ROOSEVELT MCKELDIN,  
*Governor of Maryland.*

SIR:

I have the honor to submit herewith the thirty-first Annual Report of the Maryland Bureau of Mines for the period of January 1, 1953 to December 31, 1953 in compliance with the requirements of the Maryland Mining Law.

Very respectfully,  
FRANK T. POWERS, *Director*

## REPORT OF THE MARYLAND BUREAU OF MINES 1953

*To His Excellency,*

HON. THEODORE ROOSEVELT MCKELDIN,  
*Governor of Maryland.*

SIR:

The report herewith submitted is for the calendar year 1953 and is the Seventy-seventh Annual report upon conditions of the Coal and Clay mines within the State.

The reports from the various mining operators throughout the State show the tonnage to be as follows:

### COAL AND CLAY PRODUCTION

Pick .....	158,082.12
Machine .....	192,881.01
Strip .....	236,280.01
Total .....	<u>587,243.14</u>

### COAL PRODUCTION

ALLEGANY COUNTY: During the calendar year 1953, Allegany County mines employed 250 miners, 24 drivers (including motormen, brakemen, etc.), 14 inside laborers, and 63 outside employees, making a total of 351 men. The production of coal for 1953 was 221,951.05 net tons. This shows a production of 887 net tons per miner employed during this period.

GARRETT COUNTY: During the calendar year 1953, Garrett County mines employed 207 miners, 30 drivers (including motormen, brakemen, etc.), 16 inside laborers, and 104 outside employees, making a total of 357 men. The production of coal for 1953 was 325,016.18 net tons. This shows a production of 1,570 net tons per miner employed during this period.

### FIRE CLAY PRODUCTION

ALLEGANY COUNTY: During the calendar year 1953, the fire clay mines in Allegany County employed 18 miners, 4 drivers, 9 inside laborers, and 8 outside employees, making a total of 39 men. The production of fire clay during 1953 was 20,275.11 net tons, and shows a production of 2,235 net tons per miner.

GARRETT COUNTY: There was no clay production during the calendar year 1953. Clay operations in Garrett County ceased in March 1952, and never re-opened.

### STATE MINE EXAMINING BOARD

The following Certificates were awarded as a result of the thirty-second examination for mine foreman, conducted at Frostburg, Allegany County, Maryland, August 4 and 5, 1953.

#### FIRST CLASS

Baker, Noah E.....	Frostburg
Ewing, Robert D.....	Frostburg
Filer, Ellsworth B.....	Frostburg
Henckel, George E.....	Frostburg
Jeffries, Clement V.....	Frostburg
Jones, William T.....	Friendsville
Powell, Thomas B.....	Frostburg
Sharpless, David W.....	Kitzmiller

### PERSONNEL, MARYLAND BUREAU OF MINES

#### *Director*

Frank B. Powers..... Westernport

#### *District Mine Inspectors*

Harry B. Buckley..... Kitzmiller  
 Thomas B. Powell..... Frostburg  
 Clyde J. Rowe..... Westernport  
 (Retired November 1, 1953)  
 Edward A. Stowell..... Mt. Savage

#### *Fuel Combustion Advisor*

Rodney W. Selders..... Kitzmiller

#### *Stenographer-Secretary*

Mrs. Elizabeth Ann Gilmore..... Westernport

#### *Senior Typist*

Mrs. Lillian A. Frankhouser..... Cresaptown

#### *Mine Examining Board*

Frank T. Powers, Chairman..... Westernport  
 James H. Close, Representing Operators..... Frostburg  
 Ellis Ellifritz, Representing Miners..... Vindex

**BUREAU OF MINES**  
**SUMMARY OF PRODUCTION STATISTICS**  
**1953**

**COAL**

	Allegany County	Garrett County	Total Net Tons (Cwt)
Pick .....	102,675.03	39,238.02	141,913.05
Machine .....	43,601.08	136,736.09	180,337.17
Strip .....	75,674.14	149,042.07	224,717.01
<b>Total</b> .....	<b>221,951.05</b>	<b>325,016.18</b>	<b>546,968.03</b>

**Employees**

Miners .....	250	207	457
Drivers * .....	24	30	54
Inside Laborers .....	14	16	30
Outside Employees .....	63	104	167
<b>Total</b> .....	<b>351</b>	<b>357</b>	<b>708</b>

**FIRE CLAY**

Pick .....	16,169.07	.....	16,169.07
Machine .....	12,543.04	.....	12,543.04
Strip .....	11,563.00	.....	11,563.00
<b>Total</b> .....	<b>40,275.11</b>	.....	<b>40,275.11</b>

**Employees**

Miners .....	18	..	18
Drivers * .....	4	..	4
Inside Laborers .....	9	..	9
Outside Employees .....	8	..	8
<b>Total</b> .....	<b>39</b>	..	<b>39</b>

\* Drivers include Motorman, Brakeman, etc.

**COMPARATIVE STATEMENT OF STATISTICS OF  
COAL AND CLAY PRODUCTION**

1952 - 1953

**COAL**

**Allegheny County**

Year	Net Tons (Cwt)	Miners	Drivers *	Inside Laborers	Outside Employees	Total	Fatalities
1952.....	226,267.00	280	30	18	59	387	1
1953.....	221,951.05	250	24	14	63	351	1

**Garrett County**

1952.....	343,599.00	223	34	26	102	385	..
1953.....	325,016.18	207	30	16	104	357	1

**Entire State**

1952.....	569,866.00	503	64	44	161	772	1
1953.....	546,968.03	457	54	30	167	708	2

**FIRE CLAY**

**Allegheny County**

1952.....	67,528.02	36	8	12	19	75	..
1953.....	40,275.11	18	4	9	8	39	..

**Garrett County**

1952.....	20,336.00	..	..	..	19	19	..
1953.....	.....	..	..	..	..	..	..

**Entire State**

1952.....	87,864.02	36	8	12	38	94	..
1953.....	40,275.11	18	4	9	8	39	..

\* Drivers include Motormen, Brakemen, etc.

**TOTAL CLAY AND COAL PRODUCTION**

1952	657,730.02
1953	587,243.14

# Statistics of Coal Production, Calendar Year 1953

## ALLEGANY COUNTY

Name of Operator	Name or Number of Mine	Number of Openings	Coal Seam Worked	Distribution of Employees				Days Worked Year	Output Statistics (Cwt. Net Tons)				Accidents		Mining Machines & Equipment	
				Miners	*Drivers	Inside Laborers	Outside Employees		Total	Pick	Machine	Strip	Total	Fatal		Non-Fatal
Aden Coal Company	Aden	1	Bakerstown	2	1			2	58	399.00			399.00			
Ajax Coal Company	Ajax No. 4	1	Bakerstown	8	1			10	210	5,676.00			5,676.00			
Albright Mining Company	No. 2	Strip	Big Vein	1				1	27	171.00	171.00		171.00			Miller Machine
Bakers Coal Company	Ayers-Parker	2	Parker	3	1			4	162	768.00	768.00		768.00			
Barnes Coal Company	Barnes	Strip	Bakerstown	3	1			4	163	979.00			979.00			
Bartlett Run Coal Company	Bartlett	Strip	Big Vein	2		4		6	300	179.00	1,715.10		1,715.10			
Bennett Coal Company	No. 1	2	Bakerstown	6	1			7	200	3,858.13			3,858.13			
Bennett W. C.	No. 1	1	Big Vein	1				1	35	113.00			113.00			
Bivicol Company	No. 1	1	Big Vein	2				2	164	524.00			524.00			
Bowser & Kyle	No. 1	1	Big Vein	2				2	252	1,020.00			1,020.00			
Brashear	No. 1	2	Big Vein	2				2	111	363.00			363.00			
Bushy Run Coal Company	Brashear	2	Big Vein	2				2	50	309.00	47.00		356.00			
Bushy Run Coal Company	Castle No. 11	1	Big Vein	1				1	83	1,287.17			1,287.17			
Chidester & Porter	C. & P. No. 1	2	Big Vein	2				2	140	1,648.00			1,648.00			
Clark Coal Company	No. 2	2	Bakerstown	3	1			4	100	1,194.00			1,194.00			
Clark Thomas J. & Bro.	Clark No. 2	1	Bakerstown	2				2	30	110.00			110.00			
Clarke Coal Company	Clarke	1	Big Vein	2				2	129	1,294.08			1,294.08			
Cliffes Coal Company	Cliffes	2	Waynesburg	4	1			5	143	1,179.00	627.00		1,806.00		2	
Clover Coal Company	Clover	Strip	Waynesburg	2				2	213	1,192.00			1,192.00			
Conmore-Haines Big Vein Coal Company	Jackson	2	Big Vein	12	2			14	216	16,637.00	14,919.00		31,556.00		7	4 Jeffrey 35L
Consolidated Fuel Company	Ocean No. 1	2	Big Vein	15	2			17	183	38,132.00	23,213.00		61,345.00			
Consolidated Fuel Company	No. 10	Strip	Tyson	2				2	12	4,450.02	144.09		4,594.11			
Cook J. W.	Strip	2	Big Vein	4				4	218	389.00			389.00			
Edna Fuel Company	No. 1	1	Bakerstown	2				2	83	535.00			535.00			
Fairrieve Coal Company	Federal Hill	1	Big Vein	2				2	253	420.00			420.00			
Federal Hill Coal Company	Filer	1	Pittsburgh	2				2	63	277.00			277.00			
Filer Coal Company	Low Tyde	2	Big Vein	2				2	178	945.00			945.00			
Flisinger, Wilham	Blackberry	2	Big Vein	4				4	222	4,027.00			4,027.00			
Finzel-Skidmore Coal Company	No. 1	2	Big Vein	2				2	144	581.00			581.00			
Footes-Gardner Coal Company	No. 1	2	Bakerstown	3	1			4	159	2,268.02			2,268.02			
Frenzel Coal Company	No. 1	2	Big Vein	2				2	36	245.00			245.00			
Good Will Fuel Company	No. 1	1	Big Vein	3				3	142	1,450.10			1,450.10			
Gray Coal Company	Bluebird	1	Big Vein	2				2	222	2,174.00			2,174.00			
Grove, Isabelle Coal Company	Castle No. 11	1	Big Vein	2				2	57	601.00			601.00			
Harden Coal Company	Harden	2	Big Vein	2				2	29	312.00			312.00			
Hill Top Big Vein Coal Company	No. 2	2	Tyson	2				2	233	959.00			959.00			
Hughes Coal Company	Red Cross No. 2	2	Big Vein	3	1			4	165	3,174.13			3,174.13		1	
Hughes Coal Company	Columbia	2	Pittsburgh	3	1			4	172	216.00			216.00			
Jeffries Mine	No. 2	1	Big Vein	1				1	40	143.00			143.00			
Jenkins Fuel Mine	Clark Mine	2	Big Vein	8	2			10	203	11,556.00	218.00		11,774.00		1	
Keller Coal Company	Kyle	2	Bakerstown	2				2	29	133.00			133.00			
Kyle Brothers Coal Company	L & H Coal Company	1	Big Vein	2				2	233	959.00			959.00			
L & H Coal Company	Beechwood No. 1	2	Waynesburg	3				3	165	3,174.13			3,174.13			
Lewis & Wellings	L & W No. 1	2	Big Vein	2				2	40	143.00			143.00			
Llewellyn, Dewey	No. 1	1	Bakerstown	1				1	51	143.00			143.00			
M & J Coal Company	Rubach	Strip	Big Vein	1				1	51	143.00			143.00			
Macanek Coal Company	Macanek	Strip	Pittsburgh	8	2			10	203	11,556.00	5,148.00		16,704.00		1	
Marianelli, P. Coal Company	Zihlman	Strip	Tyson	2				2	44	369.00			369.00			
Martin & Symons	No. 1	2	Bakerstown	2				2	169	1,050.00	1,065.00		2,115.00			
Maryland Coal Company	Union No. 3	2	Mynadler	3				3	239	2,197.14			2,197.14			
Meadow Fuel Company	Meadow	2	Big Vein	3				3	128	388.00			388.00			
Metz, Chester Coal Company	No. 2	2	Bakerstown	1				1	151	1,292.00			1,292.00			
Metz Coal Company	Metz	2	Bakerstown	3	1			4	35	35.00			35.00			
Michaels Coal Company	No. 1	1	Big Vein	1				1	35	35.00			35.00			
Miller Coal Company	Miller Strip	Strip	Big Vein	2				2	204	2,445.12	668.15		3,113.27			
Moore Coal Company	Moore	2	Tyson	3				3	193	1,229.00			1,229.00			
Moore Run Coal Company	Moore	2	Bakerstown	2				2	125	1,229.00			1,229.00			
Moran Coal Company	James No. 4	Strip	Franklin	6				6	45	12,125.06	3,803.00		15,928.06			
Moran Coal Company	Potomac	Strip	Big Vein	4				4	45	3,803.00			3,803.00			

## Statistics of Coal Production, Calendar Year 1953 ALLEGANY COUNTY—Continued

Name of Operator	Name or Number of Mine	Number of Openings	Coal Seam Worked	Distribution of Employees				Days Worked During Year	Output Statistics (Cwt. Net Tons)				Accidents		Mining Machines & Equipment	
				Miners	*Drivers	Inside Laborers	Outside Employees		Total	Pick	Machine	Strip	Total	Fatal		Non-Fatal
Nickel Coal Company	Union No. 1	Strip	Tyson	3			3	145								
No Tick Coal Company	Rank	2	Big Vein	2			2	213	628.00			6,251.00				
Parker & Wilt Coal Company	Parker	1	Pittsburgh	2			2	191	337.00			327.00				
Parkersburg Coal Company	Parkersburg	1	Big Vein	2			2	23	109.00			109.00				
Pekin Big Vein Coal Company	No. 4	2	Pittsburgh	5			5	273	2,832.00			2,832.00				
Phoenix Big Vein Coal Company	Hofa No. 3	Strip	Franklin	3		3	7	273	2,832.00		7,225.03	7,225.03				1 Bulldozer and 1 Shovel
Pleasant Valley Coal Company, The	Stanton	2	Kittanning	7			7	131	2,322.00			2,322.00				
Pleasant Valley Coal Company, The	Piney Mt.	3	Kittanning	5			5	183	2,034.00			2,034.00				1
Porter Coal Company	Blank	2	Bakerstown	1			1	180	480.00			480.00				
Porter Coal Company	Porter	2	Tyson	2			2	135	237.00			237.00				
Porter, Marshall	Porter	1	Big Vein	1			1	121	480.00			480.00				
Rayner Coal Company	Rayner	1	Big Vein	2			2	136	83.01		683.18	766.19				
Roaring Ben Coal Company, The	Waynesburg	3	Waynesburg	7	2		9	204	310.00	9,325.09		9,325.09				3-35B Jeffrey, 1 Sullivan 7B
Robison Coal Company	Tyson No. 2	2	Tyson	4			4	146	310.00			310.00				
Russell Coal Company	Russell	1	Big Vein	2			2	163	2,823.00			2,823.00				
Russell Coal Company	Miller	1	Big Vein	1			1	90	867.00		867.00	867.00				
Shuhart Coal Company	Shuhart	Strip	Bakerstown	2	1		3	126	1,569.11			1,569.11				
Shuhart Coal Company	Stott	1	Tyson	2			2	147	161.00			161.00				
Stott Coal Company	Tharp	3	Big Vein	3			3	180	846.00			846.00				
Tharp Coal Company	Tharp	1	Kittanning	1			1	182	169.00			169.00				
Twin Fuel Company	No. 1	2	Franklin	7			7	32	36.00		9,403.00	9,403.00				
Tyson Coal Company	Hampshire	Strip	Brush Creek	2			2	230	36.00			36.00				
Tyson Coal Company	No. 1	1	Brush Creek	18			18	236	953.00	15,963.19		15,963.19				
W & L Coal Company	No. 2	1	Bakerstown	5			5	231	933.00			933.00				
W & L Coal Company	Waddell	2	Big Vein	2	1		3	213	933.00	933.00		933.00				
Waddell, Douglas	No. 1	1	Tyson	2			2	188	1,758.02			1,758.02				
Wesbeck Coal Company	Williams	1	Big Vein	2			2	111	328.00			328.00				
Williams, Margaret L.	No. 1	2	Brush Creek	2			2	115	72.00			72.00				
Winebrenner Coal Company	No. 1	2	reepport	1			1	29	71.00			71.00				
Wolfe Coal Company	Wolfe	1	Kittanning	1			1	29	71.00			71.00				
Wolfe Coal Company	Wolfe	1	Kittanning	1			1	29	71.00			71.00				
Totals				250	24	14	63	351	102,675.03	43,601.08	75,674.14	221,951.05	1	13		

## STATISTICS OF FIRE CLAY PRODUCTION—ALLEGANY COUNTY

Big Savage Refractories Corporation	Big Savage	3	Clay	12	3	7	3	25	16,169.07		1,996.00	18,165.07				
Mt. Savage Refractories Company, The	Barrelville	Strip	Soft Clay	6	1	2	2	11	12,543.04		9,567.00	12,543.04				4
Mt. Savage Refractories Company, The	Mt. Savage	Strip	Soft Clay	18	4	9	8	39	16,169.07	12,543.04	11,563.00	40,275.11				5 Jackhammers
Totals				36	8	18	13	75	44,881.18	25,086.04	23,526.00	94,493.22	1	4		

\* Miners include Motormen, Brakeman, etc.



# Statistics of Coal Production, Calendar Year 1953

## GARRETT COUNTY

Name of Operator	Name or Number of Mine	Number of Openings	Coal Seam Worked	Distribution of Employees				Days Worked	Output Statistics (Cwt. Net Tons)				Accidents		Mining Machines & Equipment	
				Miners	*Drivers	Inside Laborers	Outside Employees		Total	Pick	Machine	Strip	Total	Fatal		Non-Fatal
A. G. Coal Company	A. G. Mine	2	Bakerstown	1				217	680.00				680.00			
Aladdin Fuels Inc.	Magic No. 2	Strip	Freeport					112	14,699.05				14,699.05			
B. B. & K. Coal Company	Wolf Den	3	Freeport	4	1		10	127	1,850.00				1,850.00			
Baker Coal Company	Del Signore	2	Kittanning	2			5	33	321.00				321.00			
Bittinger Coal Company	No. 1	2	Bakerstown	2			2	87	359.00				359.00			
Broadwater	Broadwater	1	Freeport	1			7	277	6,801.15				6,801.15			
Burrell Brothers Coal Corp.	Mit No. 1	1	Pittsburgh	6	1		7	181	376.75				376.75			
Butcher Run Coal Company	No. 1	1	Bakerstown	1			2	123	1,855.12				1,855.12			1 Shovel & 2 Dozers
Callis Coal Company	Callis	2	Freeport	5	1		6	187	10,394.01				10,394.01			
Carr & Grotfely Construction Company	No. 1	Strip	Freeport	3			3	140	1,180.00				1,180.00			
Collins, Robert Coal Company	Cover	2	Bakerstown	1			1	152	418.01				418.01			
Cover, James A.	Cover	2	Freeport	1			1	75	13,248.14				13,248.14			1 Dragline & 1 Loading Shovel
Cramblett's Mines	Cramblett No. 3	Strip	Freeport	12			12	173	1,104.01				1,104.01			1 Loading Shovel
Daugherty Coal Company, Inc.	Daugherty No. 3	Strip	Kittanning	1			1	20	1,449.15				1,449.15			1-1 Yd. Shovel & 2 D-7 Dozers
Dixie Coal Company, Inc.	Harvey	Strip	Freeport	3			3	115	1,660.12				1,660.12			Auger
Doerr, Ray Coal Company	No. 2	2	Freeport	4	1		5	132	384.00				384.00			
Duckworth Coal Company	No. 1	2	C-Prime	1			1	243	914.00				914.00			
E. & S. Coal Company	No. 1	5	Bakerstown	7	1		10	143	2,530.10				2,530.10			
Fairview Coal Corp.	Fairview No. 1	1	Freeport	4	1		5	306	647.15				647.15			
Fazenbaker, James W.	No. 2	Strip	Freeport	1			1	151	1,550.00				1,550.00			
Fike Coal Company	Fike	2	C-Prime	2			2	193	49,993.00				49,993.00			2 Goodman Cutters & Duckbills
Freeport Coal Company	Hamill No. 1	1	Kittanning	26	2	4	38	225	141.00				141.00			1 Miller Machine
Garrett Coal Corporation	Earl No. 3	1	Bakerstown	14	6		22	178	734.00				734.00			
Gary Coal Company	Gary	2	Kittanning	1			1	234	2,555.07				2,555.07			
Glover & Schlossagle	No. 627	1	Freeport	1			1	166	1,479.00				1,479.00			Miller Auger
Gordon, Wilbert	Shaw	2	Freeport	3	1		4	157	808.00				808.00			Miller Machine
Grantsville Coal Company	Harvey	2	Kittanning	1			1	142	322.00				322.00			
Harrison Coal Company	No. 3	2	Bakerstown	2			2	140	346.00				346.00			
Harvey, Ralph	Harvey	2	Freeport	3	1		4	87	184.00				184.00			
Jones, T. L. Coal Company	Jones	2	Bakerstown	3			3	98	754.00				754.00			
Kimmel, G. W. & Partner	Harvey-Dawson	4	Freeport	3			3	75	1,467.00				1,467.00			
King Coal Company	Beitzel	2	Kittanning	1			1	55	793.00				793.00			
Klotz Coal Company	Swanton	Strip	Bakerstown	1			1	243	8,966.00				8,966.00			
Koontz Coal Company, The	Table Rock	2	Freeport	7	2	1	10	150	195.00				195.00			1 Miller Machine
Lantz, Roscoe B.	Bloomington	2	Bakerstown	1			1	149	16,957.08				16,957.08			
M. & Y. Stripping Company	Ezra Michaels No. 3	3	Bakerstown	1			1	244	8,086.00				8,086.00			
M. & Y. Stripping Company	McKenzie	Strip	Freeport	5			5	229	20,134.19				20,134.19			2 Miller Machines
Mill Run Georges Creek Coal Company	No. 1	Strip	Bakerstown	10	4	4	30	66	348.00				348.00			
Mineral Coal Company, Inc.	No. 1	1	Freeport	2			2	173	69.00				69.00			1 Miller Cutting Machine
Morgan Contracting Company	Susanne No. 1	2	Freeport	2			2	126	305.00				305.00			
Myers Coal Company, Inc.	Pattison	1	Bakerstown	1			1	92	2,211.00				2,211.00			
Nelson Coal Company	Pee Wee	2	Freeport	2			2	148	2,343.15				2,343.15			
Ours & Paugh Coal Company	Yoder	Strip	Bakerstown	1			1	109	2,785.13				2,785.13			
Paugh Brothers Coal Company	Freeport No. 1	2	Freeport	5	1		6	186	1,277.06				1,277.06			
Fritts Brother Coal Company	Komadale No. 1	2	Freeport	3	1		4	90	332.00				332.00			
Robertson, W. A.	Sausman	2	C-Prime	2			2	51	422.00				422.00			
Robertson, W. A.	Sausman, Harry	2	Freeport	2			2	185	4,600.00				4,600.00			
Romadale Coal Corp.	Harvey	2	Kittanning	4	2		6	176	623.09				623.09			
Shank Coal Company	Bawlings No. 1	2	Kittanning	2			2	151	669.19				669.19			
Sharpless, Leslie B. Coal Company	Bachel	1	Freeport	1			1	48	110.00				110.00			
Shield Run Coal Company	No. 2	1	Freeport	2			2	28	116.00				116.00			
Sines & Crowl	No. 1	2	Freeport	2			2	28	116.00				116.00			
Smith, Troy	Solomon	2	Freeport	2			2	28	116.00				116.00			
Solomon & Paugh	Solomon	2	Freeport	2			2	28	116.00				116.00			

# Statistics of Coal Production, Calendar Year 1953

## GARRETT COUNTY—Continued

Name of Operator	Name or Number of Mine	Number of Openings	Coal Seam Worked	Distribution of Employees				Days Worked	Output Statistics (Cwt. Net Tons)				Accidents		Mining Machines & Equipment	
				Miners	*Drivers	Inside Laborers	Outside Employees		Total	Pick	Machine	Strip	Total	Fatal		Non-Fatal
Stoddart Coal Company	Lantz	1	Freeport	2	1			3	122	1,146.08						
Tasker, John W. & Foster E.	Old Monroe	2	Bakerstown	2				2	153	232.00						
Tichnell Brothers Coal Company	Earl No. 4	2	Freeport	2				4	180	247.00	3,429.00					
Tucker Coal Company	No. 1	1	Freeport	2				2	142							
Union Firebrick Company	Coal Strip	3	Freeport	2	1	5		5	146	10,953.00				1		
Upperman Coal Company	No. 2	1	Kittanning	2	1	1		4	139	2,751.00						
Virts Coal Company	No. 2	1	Freeport	2				2	101	2,840.00						
Virts Coal Company	No. 4	1	Freeport	2				2	108	818.00						
Virts Coal Company	No. 5	1	Kittanning	2				2	163	568.10						
Virts Coal Company	No. 5	1	Freeport	2				2	192	203.00	7,218.10					
W & W Coal Company	No. 3	1	Freeport	1				1	152	831.00						
Wilson Coal Company	Wilson	2	Freeport	1				1	67		279.05					1
Yoder Construction Company	Beller	Strip	Brush Creek	1				1	67			279.05				
Totals				207	30	16	104	357	9,434	39,238.02	136,736.09	149,042.07	325,016.18	1	22	

\* Drivers include Motormen, Brakemen, etc.

## TONNAGE BY COAL SEAM — 1953

## Allegany County

	Net Tons (Cwt)
Pittsburgh (Big Vein) .....	75,932.13
Tyson .....	54,666.05
Bakerstown .....	37,192.03
Franklin .....	28,753.09
Waynesburg .....	16,490.15
Kittanning .....	4,525.00
Freeport .....	1,889.00
Maynadier .....	1,170.00
Parker .....	768.00
Brush Creek .....	564.00
Total .....	221,951.05

## Garrett County

Freeport .....	196,052.10
Kittanning .....	63,077.10
Bakerstown .....	60,377.12
Six-Foot .....	1,550.00
C-Prime .....	1,363.15
Pittsburgh .....	1,101.03
Tyson (Sewickly) .....	797.02
Brush Creek .....	697.06
Total .....	325,016.18

## TONNAGE BY BASIN — 1953

George's Creek .....	315,746.18
Upper Potomac .....	155,923.04
Castleman .....	73,053.05
Lower Youghiogheny .....	2,244.16
Total .....	546,968.03

**FATALITIES**

During the year 1953, two (2) fatal accidents occurred in the coal mines of Maryland.

**ALLEGANY COUNTY**

An electrical accident that occurred about 2:30 P. M., on June 19, 1953, at No. 2 Mine, Clark Coal Company, Westernport, Maryland, resulted in the death of Thomas S. Clark, when he apparently picked up a live wire. Mr. Clark was owner and operator of the mine.

Mr. Clark was 54 years of age and had 37 years mining experience, 4 years as a mine operator. He is survived by his widow and seven children over 18 years of age.

It is presumed that as Mr. Clark was reentering the first left butt heading, he found the broken signal wire lying on the haulway; and upon picking up the wire was electrocuted. He apparently was grounded to the rail through his damp feet, or in some manner through the upper part of the left forearm, which was burned.

The bare signal wires were charged with 110 volts of alternating current, and copper pennies were found to be used in the fuse box.

Time of Accident—June 19, 1953

Date of Death—June 19, 1953

Name of Injured—Thomas S. Clark

Nationality—American

Age—54 years

Married or Single—Married

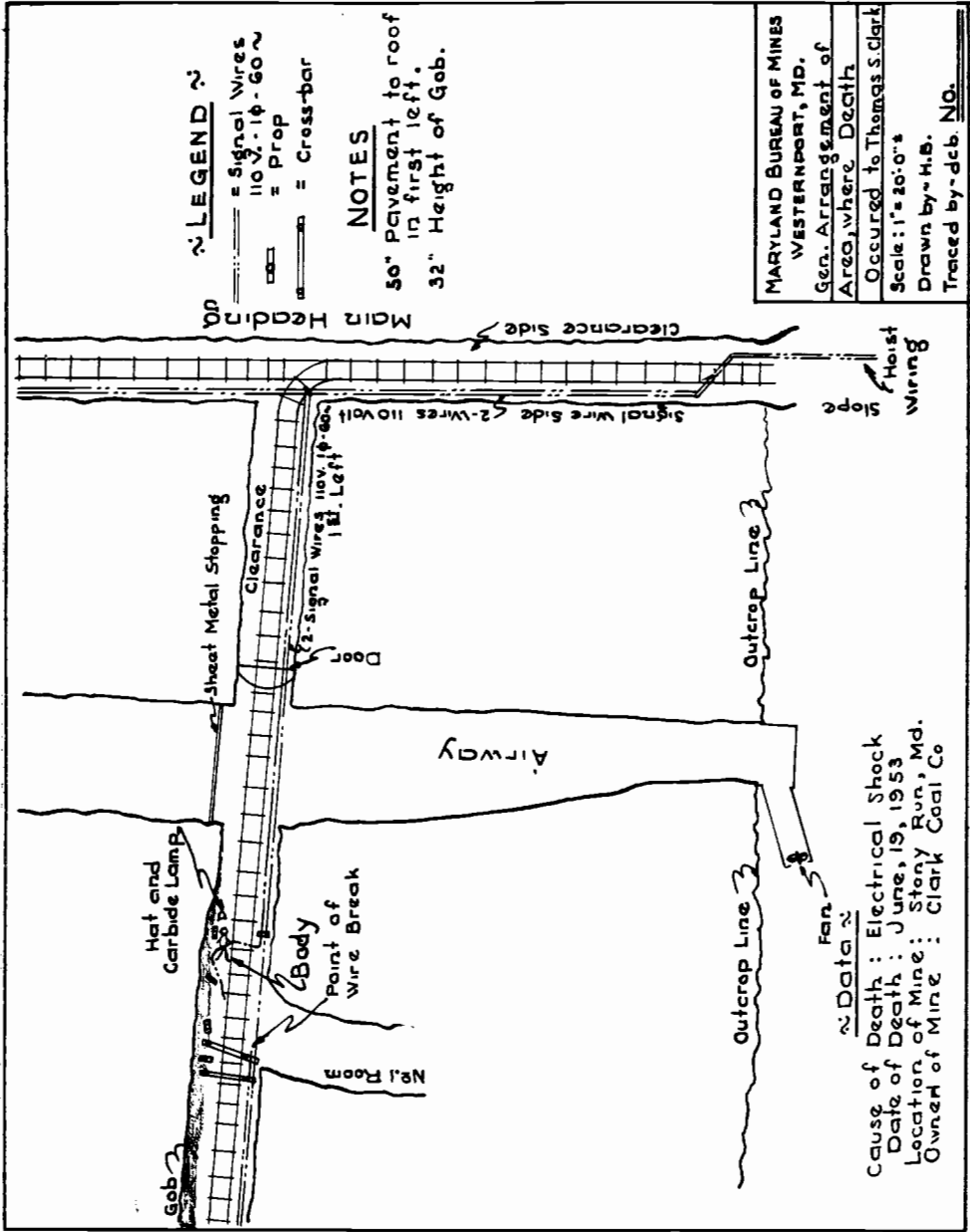
Number of Dependents—1

Residence—Westernport, Maryland

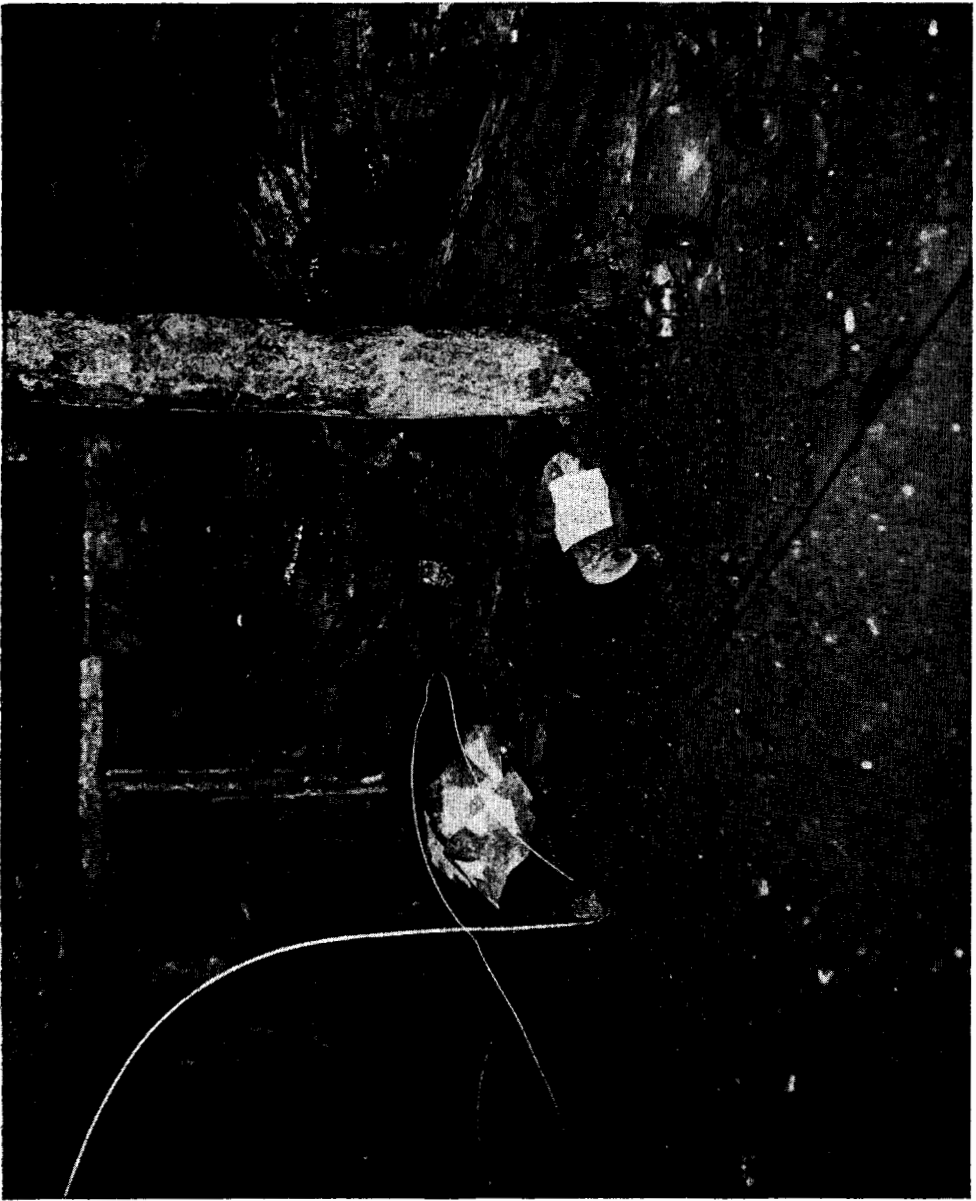
Inspector in charge of District—Harry B. Buckley

Time and Date of Inspection—June 20, 1953, 10:00 A. M., by Inspectors Harry B. Buckley, Edward A. Stowell, Maryland Bureau of Mines; Harry Jones, U. S. Bureau of Mines, and James L. Lambert and Arthur Braithwaite, miners employed at the Clark Mine.

**RECOMMENDATION**—Bare signal wires that are readily accessible to personal contact should not carry more than 30 volts; and proper electrical installation should be maintained at all times.



**SKETCH OF FATAL ACCIDENT, June 19, 1953, at Clark Coal Company, Westernport, Maryland.**



**SCENE OF FATAL ACCIDENT, June 19, 1953, at Clark Coal Company, Westernport, Maryland.**

## GARRETT COUNTY

A rock fall that occurred about 6:30 P. M., on July 7, 1953, at Earl No. 2 Mine, Garrett Coal Corporation, Vindex, Maryland, resulted in the death of William Leo Mayhew. Mr. Mayhew was 41 years of age and had 26 years mining experience. His regular occupation was operating a cutting machine. He is survived by his widow and six children, four of whom are under 18 years of age.

Mr. Mayhew, who had been shoveling coal along the pan line to the working face, had finished and started back, when the rock, 4' x 6' x 11", fell, killing him instantly.

At the beginning of the second shift, a bad piece of top rock was detected during the usual roof tests at the face. The miner in charge of the crew who detected this fault, ordered it taken down and a temporary cross bar stood; this was done and the temporary cross bar was within two feet of the face. The place was then undercut and blasted and the men proceeded to load out the loose coal. Four safety jacks were stood across the place about 6' apart and about 3' from the face, while the coal was being loaded. While the men were loading the seventh car, a piece of roof fell from between two safety jacks without warning, and struck the victim on the head. A safety jack which apparently was under the edge of the rock was dislodged when the rock fell. A lifting jack had to be used to raise the rock from the victim's body. Although three other men were working in the place at the time of the accident, there was only one eye witness to the accident.

Time of Accident—July 7, 1953

Date of Death—July 7, 1953

Name of Injured—William Leo Mayhew

Nationality—American

Age—41 years

Married or Single—Married

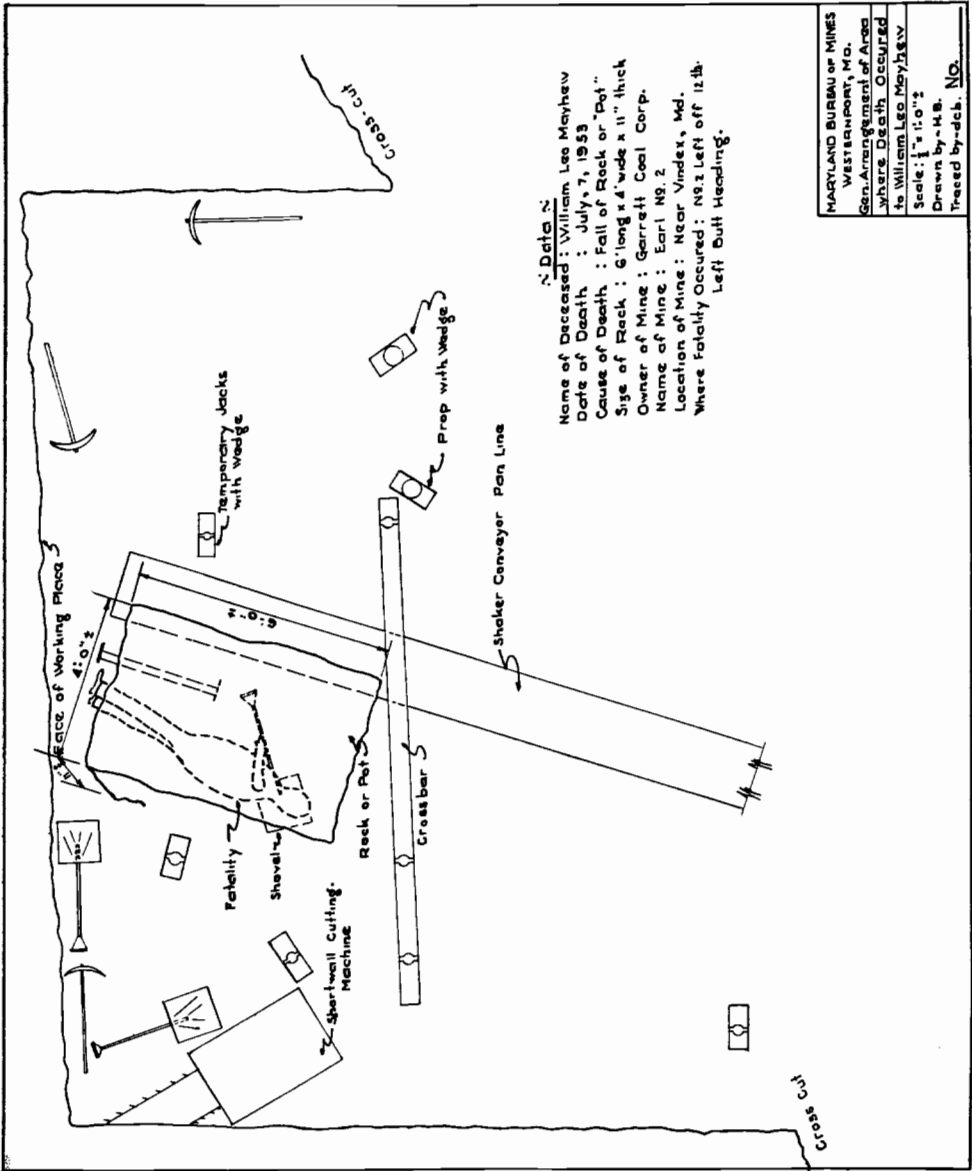
Number of Dependents—5

Residence—Elk Garden, West Virginia

Inspector in charge of District—Harry B. Buckley

Time and Date of Inspection—July 8, 1953, 10:00 A. M., by Inspectors Harry B. Buckley, Edward A. Stowell, Maryland Bureau of Mines; Thomas J. Ward, U. S. Bureau of Mines, and Carl Schell, Assistant Superintendent, Fred Mason, Night Foreman, and James Smith, Miner, Garrett Coal Corporation.

**RECOMMENDATION**—All underground working places should be timbered sufficiently to protect the employees working at the faces, from falls of roof, ribs, or face. When a faulty roof is encountered, the minimum requirement of the timbering standards should be supplemented with additional roof support of a nature to assure adequate protection for workmen.



Name of Deceased : William Leo Mayhew  
 Date of Death : July 7, 1953  
 Cause of Death : Fall of Reek or "Pot"  
 Size of Reek : 6' long x 4' wide x 11" thick  
 Owner of Mine : Garrett Coal Corp.  
 Name of Mine : Earl No. 2  
 Location of Mine : Near Vindex, Md.  
 Where Fatality Occurred : No. 2 Left off 12th  
 Left Butt Heading.

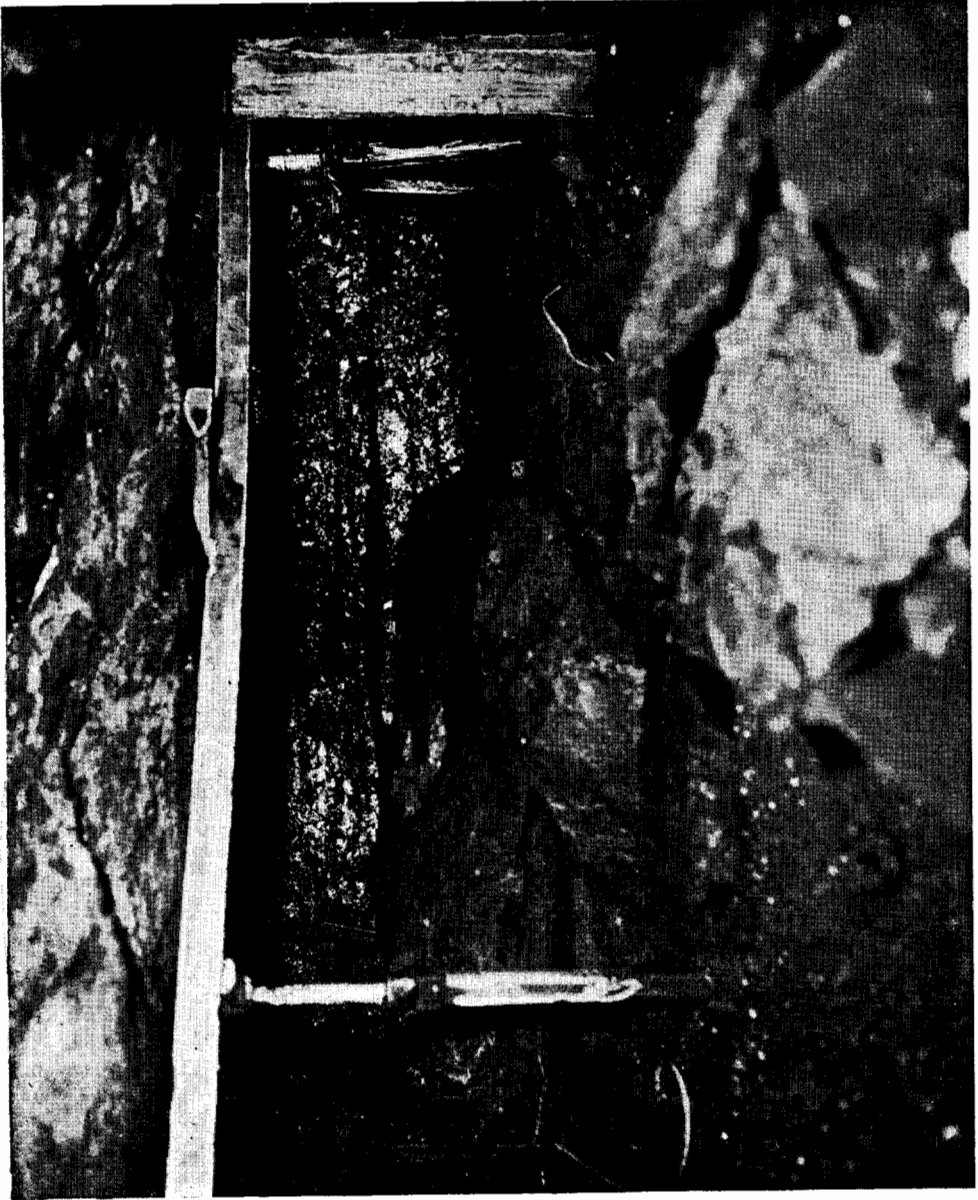
MARYLAND BUREAU OF MINES
WESTMINSTER, MD.
Gen. Arrangement of Area
Where Death Occurred
to William Leo Mayhew
Scale: 1" = 11' 0"
Drawn by - H.B.
Traced by - dck. NO.

SKETCH OF FATAL ACCIDENT, July 7, 1953, at Garrett Coal Corporation, Vindex, Maryland.





SCENE OF FATAL ACCIDENT, July 7, 1953, at Garrett Coal Corporation Vindex, Maryland.



SCENE OF FATAL ACCIDENT, July 7, 1953, at Garrett Coal Corporation Vindex, Maryland

**MINE INSPECTIONS  
ALLEGANY COUNTY**

**1953**

<i>Date</i>	<i>Name of Company and Mine</i>	<i>Location</i>	<i>Inspector</i>
Jan.	7—Frenzel Coal Company, No. 1 Mine.....	Moores Run	Buckley
"	7—Brashear Coal Company, No. 2 Mine.....	Stoney Run	Buckley
"	9—Ajax Coal Company, No. 4 Mine.....	Mill Run	Buckley
"	13—Meadow Coal Company, Meadow Mine.....	Lonaconing	Rowe
"	14—Edna Fuel Company, Georges Creek No. 2.....	Lonaconing	Rowe
"	15—Waddell Coal Company, Waddell Mine.....	Lonaconing	Rowe
"	17—Metz, Chester Coal Company, No. 2 Mine.....	Barton	Buckley
"	17—Metz Coal Company, Metz Mine.....	Barton	Buckley
"	16—Moffatt Coal Company, No. 16 Mine.....	Lonaconing	Rowe
"	22—Clark, Thomas J. and Brother, Clark Mine.....	Barton	Buckley
"	22—Bennett Coal Company, Bennett Mine.....	Mill Run	Buckley
"	27—Macaneck Coal Company, Macaneck Mine.....	Lonaconing	Rowe
"	27—Clark Coal Company, Clarke Mine.....	Midland	Rowe
"	27—Williams, Margaret Coal Co., Williams Mine.....	Midland	Rowe
"	28—Clites Coal Company, Parker No. 2 Mine.....	Barrelville	Rowe
"	28—Consolidated Fuel Company, No. 10 Mine.....	Eckhart	Buckley
"	29—Roaring Ben Coal Company, The Waynesburg.....	Lonaconing	Buckley
"	30—Tharp Coal Company, Tharp Mine.....	Frostburg	Rowe
"	30—No Tick Coal Company, Rank Mine.....	Frostburg	Rowe
"	30—Jeffries Mine.....	Frostburg	Rowe
Feb.	5—Pekin Big Vein Coal Co., No. 4 Mine.....	Pekin	Rowe
"	16—Porter Coal Company, Porter Mine.....	Moores Run	Buckley
"	16—Moore, Alvie E., Moore Mine.....	Moores Run	Buckley
"	16—Consolidated Fuel Co., Ocean No. 1 Mine.....	Midland	Rowe
"	16—Fairgrove Coal Company, Bowser Mine.....	Moores Run	Buckley
"	18—Groves, Isabelle Coal Company, Castle 11.....	Lonaconing	Rowe
"	19—Filer Coal Company, Filer Mine.....	Midlothian	Rowe
"	19—Good Will Fuel Co., Winters & Brode Mine.....	Midlothian	Rowe
"	19—Barnes, Henry & Son, Barnes Mine.....	Midlothian	Rowe
"	20—Bowser and Kyle, Jackson No. 4 Mine.....	Barton	Rowe
"	20—Kyle Brothers, Kyle Mine.....	Barton	Rowe
"	24—Connor-Haines Big Vein Coal Co., Jackson.....	Lonaconing	Rowe
"	24—Russell Coal Company, Russell Mine.....	Lonaconing	Rowe
"	25—Shuhart Coal Company, Shuhart Mine.....	Barton	Buckley
"	25—Bartlett Run Coal Co., No. 1 Mine.....	Barton	Buckley
"	26—W. & W. Coal Company, No. 2 Mine.....	Barton	Buckley
Mar.	5—Bakerstown Coal Company.....	Moores Run	Buckley
"	5—Bennett Coal Company, Bennett Mine.....	Mill Run	Buckley
"	13—Hughes Coal Company, Columbia Mine.....	Midland	Rowe
"	16—Wecheck Coal Company, McGregor Mine.....	Lonaconing	Rowe
"	16—Clower, E. O., Clise Strip.....	Lonaconing	Rowe
"	17—Bivercol Company, The, Bivercol No. 1 Mine.....	Lonaconing	Rowe
"	17—Miller Coal Company, Miller Strip.....	Moscow	Rowe
"	18—Moffatt Coal Company, No. 16 Mine.....	Lonaconing	Rowe
"	18—Meadow Coal Company, Meadow Mine.....	Lonaconing	Rowe
"	19—Edna Fuel Company, George Creek No. 2.....	Lonaconing	Rowe
"	23—Gray Coal Company, Bluebird Mine.....	Midland	Rowe
"	23—Clarke Coal Company, Clarke Mine.....	Midland	Rowe
"	23—Clark Coal Company, No. 2 Mine.....	Stoney Run	Buckley
"	24—Frenzel Coal Company, No. 1 Mine.....	Moores Run	Buckley
"	25—Ajax Coal Company, No. 4 Mine.....	Mill Run	Buckley
"	31—Macaneck Coal Company, Macaneck Mine.....	Lonaconing	Rowe
Apr.	2—Pekin Big Vein Coal Company, No. 4 Mine.....	Pekin	Rowe
"	8—Clites Coal Company, Parker No. 2 Mine.....	Barrelville	Rowe
"	9—No Tick Coal Company, Rank Mine.....	Frostburg	Rowe
"	9—Jeffries Mine.....	Frostburg	Rowe
"	10—Barnes, Henry and Son, Barnes Mine.....	Midlothian	Rowe
"	10—Filer Coal Company, Filer Mine.....	Midlothian	Rowe
"	13—Mt. Savage Refractories Co., The, Barrelville.....	Barrelville	Rowe
"	14—Big Savage Refractories Corporation, Benson.....	Frostburg	Rowe
"	14—Moore, Alvie E., Moore Mine.....	Moores Run	Buckley
"	16—Williams, Margaret Coal Company, Williams Mine.....	Midland	Rowe
"	17—Foote and Gardner Coal Company, Waddell No. 1.....	Lonaconing	Rowe

**MINE INSPECTIONS  
ALLEGANY COUNTY**

1953

Date	Name of Company and Mine	Location	Inspector
Apr.	20—Shuhart Coal Company, Old Mill Mine.....	Barton	Buckley
"	24—L & H Coal Company, Waynesburg Mine.....	Lonaconing	Rowe
"	24—Groves, Isabelle Coal Company, Castle No. 11.....	Lonaconing	Rowe
"	27—Big Savage Refractories Corporation, N. American....	Frostburg	Rowe
"	28—Phoenix Big Vein Coal Company, Hoffa No. 3 Mine.....	Phoenix	Rowe
"	28—Tyson Coal Company, Hampshire Mine.....	Reynolds	Rowe
"	28—Moran Coal Company, James No. 4 Mine.....	Phoenix	Rowe
"	29—Keller Coal Company, Clark Mine.....	Barton	Rowe
"	29—W & W Coal Company, No. 2 Mine.....	Barton	Buckley
May	4—Parker and Wilt Coal Company, Parker & Wilt.....	Frostburg	Stowell
"	5—Mt. Savage Refractories Co., The, Barrelville.....	Barrelville	Stowell
"	6—Marianell Construction Company, Strip Mine.....	Zihlman	Stowell
"	13—Clarke Coal Company, Clarke Mine.....	Midland	Stowell
"	13—Williams, Margaret Coal Company, Williams Mine....	Midland	Stowell
"	18—Barnes, Henry and Son, Barnes Mine.....	Midlothian	Stowell
"	19—Consolidated Fuel Company, Strip.....	Klondike	Stowell
"	19—Bennett Coal Company, Bennett Mine.....	Mill Run	Buckley
"	20—Frenzels Coal Company, No. 1 Mine.....	Moore's Run	Buckley
"	21—Meadow Fuel Company, Meadow Mine.....	Lonaconing	Rowe
"	21—Moffatt Coal Company, No. 16 Mine.....	Lonaconing	Rowe
"	22—Winebrenner Coal Company, Winebrenner Mine.....	Mt. Savage	Stowell
"	22—Nickel, Karl Coal Company, Nickel Strip.....	Zihlman	Stowell
"	22—Hughes Coal Company, Columbia Mine.....	Midland	Rowe
"	25—Russell Coal Company, Russell Mine.....	Lonaconing	Stowell
"	26—Groves, Isabell Coal Company, Castle No. 11.....	Lonaconing	Stowell
"	26—Ajax Coal Company, No. 4 Mine.....	Mill Run	Buckley
"	27—Meadow Coal Company, Meadow Mine.....	Lonaconing	Stowell
"	28—Filer Coal Company, Filer Mine.....	Midlothian	Stowell
"	28—Phoenix Big Vein Coal Company, Hoffa No. 3 Mine.....	Phoenix	Rowe
"	28—Pekin Big Vein Coal Company, No. 4 Mine.....	Pekin	Rowe
June	4—W & W Coal Company, No. 2 Mine.....	Barton	Buckley
"	5—Russell Coal Company, Russell Mine.....	Lonaconing	Stowell
"	10—Bakerstown Coal Company.....	Moore's Run	Buckley
"	10—Stott Coal Company, Elger Mine.....	Frostburg	Stowell
"	11—No Tick Coal Company, Rank Mine.....	Frostburg	Stowell
"	11—Jeffries Coal Company, Jeffries Mine.....	Frostburg	Stowell
"	12—Pleasant Valley Coal Company, Piney Mt. Mine.....	Piney Mt.	Stowell
"	15—Hill Top Big Vein Coal Company, Hill Top No. 2....	Zihlman	Stowell
"	17—Liberty Fuel Company, Michaels No. 2 Mine.....	Eckhart	Stowell
"	25—Marianell Construction Company, Strip Mine.....	Zihlman	Stowell
July	10—Jenkins Coal Company, Watkins Mine.....	Mt. Savage	Stowell
"	10—Twin Coal Company, Twin Mine.....	Mt. Savage	Stowell
"	13—Buskirk Coal Company, Strip Mine.....	Lonaconing	Stowell
"	13—Russell Coal Company, Russell Mine.....	Lonaconing	Stowell
"	13—Edna Coal Company, No. 2 Mine.....	Lonaconing	Stowell
"	13—Pekin Big Vein Coal Company, No. 1 Mine.....	Pekin	Buckley
"	14—Frenzels Coal Company, No. 1 Mine.....	Barton	Buckley
"	14—Foote and Gardner Coal Company, No. 1 Mine.....	Lonaconing	Buckley
"	15—Chiloster Coal Company, Chiloster & Porter Mine....	Zihlman	Stowell
"	15—Robison Coal Company, Robison Mine.....	Frostburg	Stowell
"	15—Liberty Fuel Company, No. 2 Mine.....	Eckhart	Stowell
"	16—Consolidated Fuel Company, Ocean No. 1 Mine.....	Midland	Stowell
"	16—Consolidated Fuel Company, No. 16 Mine.....	Midland	Stowell
"	21—Bivecol, Company, Inc., The, Bivecol No. 1 Mine....	Lonaconing	Rowe
"	21—Foote and Gardner Coal Co., Waddell No. 1.....	Lonaconing	Rowe
"	22—Connor-Haines Coal Company, Inc., Jackson Mine....	Lonaconing	Rowe
"	22—Maryland Fuel Company, Union No. 3 Mine.....	Mt. Savage	Stowell
"	28—Bennett Coal Company, Bennett Mine.....	Mill Run	Buckley
"	28—Keller Coal Company, Clark Mine.....	Barton	Buckley
"	29—Filer Coal Company, Filer Mine.....	Midlothian	Rowe
"	30—Consolidated Fuel Company, Strip Mine.....	Carlos	Stowell
"	31—Williams, Margaret Coal Company, Williams Mine....	Midland	Rowe
"	31—Hughes Coal Company, Columbia Mine.....	Midland	Rowe

## MINE INSPECTIONS ALLEGANY COUNTY

1953

Date	Name of Company and Mine	Location	Inspector
Aug.	5—Macaneck Coal Company, Macaneck Mine.....	Lonaconing	Rowe
"	6—Jenkins Fuel Company, Watkins Mine.....	Mt. Savage	Stowell
"	6—Michaels, Earl Coal Company, No. 1 Mine.....	Mt. Savage	Stowell
"	6—Tharp Coal Company, Tharp Mine.....	Frostburg	Stowell
"	7—Williams, Margaret L. Coal Company, Williams Mine	Midland	Stowell
"	11—Shuhart Coal Company, Old Mill Mine.....	Barton	Buckley
"	11—Winebrenner Coal Company, Winebrenner Mine....	Mt. Savage	Stowell
"	12—Federal Hill Coal Company, Federal Mine.....	Frostburg	Stowell
"	13—No Tick Coal Company, Rank Mine.....	Frostburg	Stowell
"	13—Ajax Coal Company, No. 4 Mine.....	Mill Run	Buckley
"	14—W & L Company, W & L Mine.....	Mt. Savage	Stowell
"	14—Big Savage Refractories Corp., Clay Mine.....	Savage Mt.	Stowell
"	17—Moffatt Coal Company, No. 16 Mine.....	Lonaconing	Rowe
"	17—Meadow Coal Company, Meadow Mine.....	Lonaconing	Rowe
"	17—Hughes Coal Company, Hughes Mine.....	Midland	Stowell
"	18—Moore, Alvine S., Moore Mine.....	Moores Run	Buckley
"	18—Bakerstown Coal Company.....	Moores Run	Buckley
"	18—Weebeck Coal Company, McGregor Mine.....	Lonaconing	Rowe
"	18—Clarke Coal Company, Clarke Mine.....	Midland	Rowe
"	19—Edna Fuel Company, Georges Creek No. 2 Mine....	Lonaconing	Rowe
"	19—Russell Coal Company, Russell Mine.....	Lonaconing	Rowe
"	20—Buskirk Coal Company, Strip No. 4.....	Lonaconing	Rowe
"	20—Buskirk Coal Company, Tyson No. 3 Mine.....	Lonaconing	Rowe
"	20—Hartman Coal Company, Tyson No. 2 Mine.....	Lonaconing	Rowe
"	20—Nickel Coal Company, Strip Mine.....	Zihlman	Stowell
"	20—Twin Coal Company, Twin Mine.....	Mt. Savage	Stowell
"	24—Clites Coal Company, Parker No. 1 Mine.....	Barrelville	Stowell
"	24—Pekin Big Vein Coal Company, No. 4 Mine.....	Pekin	Rowe
"	24—Stott Coal Company, Stott Mine.....	Frostburg	Stowell
"	25—Moffatt Coal Company, No. 16 Mine.....	Lonaconing	Stowell
"	26—Consolidated Fuel Company, No. 16 Mine.....	Vale Summit	Stowell
"	26—Castle Run Coal Company, Castle No. 11 Mine.....	Lonaconing	Rowe
"	26—L & H Coal Company, Waynesburg Mine.....	Lonaconing	Rowe
"	26—Metz Coal Company, Metz Mine.....	Barton	Buckley
"	26—Nelson Coal Company, Campbell Mine.....	Westernport	Buckley
"	27—W & W Coal Company, No. 2 Mine.....	Barton	Buckley
Sept.	1—Rayner Coal Company, Strip Mine.....	Gilmore	Stowell
"	2—W & L Coal Company, W & L No. 1 Mine.....	Mt. Savage	Stowell
"	2—Barnes, Henry & Son, Barnes Strip.....	Midlothian	Stowell
"	3—Chidester & Porter Coal Company, C & P No. 1 Mine	Zihlman	Stowell
"	8—Castle Run Coal Company, Castle No. 11 Mine.....	Lonaconing	Stowell
"	15—Nickel & Baker Coal Company, Federal Mine.....	Frostburg	Stowell
"	17—Porter Coal Company, Porter Mine.....	Eckhart	Stowell
"	18—Albright Coal Company, Strip Mine.....	Bald Knob	Stowell
"	21—Lewis & Wellings Coal Company, L & W Mine.....	Eckhart	Stowell
"	21—Jefferies Coal Company, Jeffries Mine.....	Frostburg	Stowell
"	23—Consolidated Fuel Company, Strip Mine.....	Klondike	Stowell
Oct.	8—Nickel Coal Company, Strip Mine.....	Zihlman	Stowell
"	15—Winebrenner Coal Company, Winebrenner Mine.....	Mt. Savage	Stowell
"	16—Robison Coal Company, Robison Mine.....	Frostburg	Stowell
"	18—Hill Top Coal Company, Red Cross No. 3 Mine.....	Zihlman	Stowell
"	19—Pinzel & Skidmore Coal Company, Stewart Mine....	Mt. Savage	Stowell
"	20—Consolidated Fuel Company, No. 16 Mine.....	Vale Summit	Stowell
"	21—Bennett Coal Company, Bennett Mine.....	Eckhart	Stowell
"	23—Pleasant Valley Coal Company, Piney Mt. Mine....	Pine Mt.	Stowell
"	26—Big Savage Refractories Corp., Benson Clay Mine....	Big Savage Mt.	Stowell
"	27—W & W Coal Company, No. 2 Mine.....	Barton	Buckley
"	27—Nelson Coal Company, Campbell Mine.....	Westernport	Buckley
Nov.	3—Porter, Marshall Coal Company, Porter Mine.....	Eckhart	Stowell
"	3—Frenzel Coal Company, No. 1 Mine.....	Barton	Buckley
"	3—Porter Coal Company, Porter Mine.....	Barton	Buckley
"	3—Moore's Run Coal Company, Moore Mine.....	Moores Run	Buckley
"	3—Big Savage Refractories Corp., N. America No. 6....	Big Savage Mt.	Stowell

**MINE INSPECTIONS  
ALLEGANY COUNTY**

**1953**

<i>Date</i>	<i>Name of Company and Mine</i>	<i>Location</i>	<i>Inspector</i>
Nov.	3—Mt. Savage Refractories Company, The, Clay Mine....	Barrelville	Stowell
"	5—Jenkins Fuel Company, Watkins Mine.....	Dutch Hollow	Stowell
"	9—Clarke Coal Company, Clarke Mine.....	Midland	Stowell
"	9—Tharp Coal Company, Tharp Mine.....	Frostburg	Stowell
"	10—Parker & Witt Coal Company, Parker Mine.....	Frostburg	Stowell
"	10—No Tick Coal Company, Rank Mine.....	Frostburg	Stowell
"	16—Macaneck Coal Company, Macaneck Mine.....	Lonaconing	Stowell
"	18—No Tick Coal Company, Rank Mine.....	Frostburg	Buckley*
"	18—No Tick Coal Company, Rank Mine.....	Frostburg	Stowell*
"	23—Consolidated Fuel Company, No. 16 Mine.....	Vale Summit	Stowell
"	23—Albright Coal Company, Strip Mine.....	Mt. Savage	Stowell
"	23—Metz Coal Company, Metz Mine.....	Barton	Buckley
"	24—Meadow Coal Company, Meadow Mine.....	Lonaconing	Stowell
"	24—Hughes Coal Company, Hughes Mine.....	Midland	Stowell
"	25—Filer Coal Company, Filer Mine.....	Midlothian	Stowell
"	25—Shuhart Coal Company, Old Mill Mine.....	Barton	Buckley
"	25—Nelson Coal Company, Campbell Mine.....	Westernport	Buckley
"	30—Edna Fuel Company, No. 2 Mine.....	Lonaconing	Stowell
"	30—Fairgrove Coal Company, Bowser Mine.....	Moores Run	Buckley
"	30—Bakerstown Coal Company, No. 1 Mine.....	Moores Run	Buckley
Dec.	1—Big Savage Refractories Corp., No. 6 Clay Mine....	Big Savage Mt.	Stowell
"	18—Ajax Coal Company, No. 4 Mine.....	Mill Run	Buckley
"	24—Porter Coal Company, Porter Mine.....	Eckhart	Powell
"	28—Bennett Coal Company, Bennett Mine.....	Mill Run	Buckley

\* Indicates joint inspection.

## MINE INSPECTIONS GARRETT COUNTY

### 1953

Date	Name of Company and Mine	Location	Inspector
Jan.	6—Kimmell, G. W. and Partner, No. 2 Mine.....	Deer Park	Buckley
"	6—Paugh Brothers Coal Company, Paugh Mine.....	Deer Park	Buckley
"	6—Callis Coal Company, Callis Mine.....	Deer Park	Buckley
"	13—King Coal Company, No. 1 Mine.....	Deer Park	Buckley
"	13—Tucker Coal Company, No. 1 Mine.....	Steyer	Buckley
"	14—Burrell Brothers Coal Corp., Milt No. 1 Mine.....	Kitzmilller	Buckley
"	14—Pritts Brothers Coal Corp., Pee Wee Mine.....	Kitzmilller	Buckley
"	16—Garrett Coal Corp., Earl No. 2 Mine.....	Vindex	Buckley
"	20—Dixie Coal Company, Inc., Harvey No. 2 Mine.....	Deer Park	Buckley
"	20—Whitacre, Wesley Coal Company, Peerless Mine.....	Kitzmilller	Buckley
"	20—Dixon Coal Company, Dixon Mine.....	Bethlehem	Buckley
"	21—Shank Coal Company, Old Harvey Mine.....	Mt. Zion	Buckley
"	23—Nelson Coal Company, Nelson Mine.....	Aarons Run	Buckley
"	23—Feller, E. E. Coal Company, Feller No. 2 Mine.....	Aarons Run	Buckley
"	23—Brashear, William Coal Company, Brashear Mine.....	Aarons Run	Buckley
"	23—Wilson Coal Company, Wilson Mine.....	Aarons Run	Buckley
"	26—Sharpless, Leslie B. Coal Company, Rawlings No. 1.....	Kitzmilller	Buckley
"	27—Chapman Coal Company, No. 2 Mine.....	Table Rock	Buckley
"	27—Shields Run Coal Company, Bachtel Mine.....	Table Rock	Buckley
"	29—Old Hampshire Coal Company, Pattison Mine.....	Bloomington	Rowe
"	29—M & Y Stripping Company, Bloomington Mine.....	Bloomington	Rowe
"	30—Virts Coal Company, No. 4 Mine.....	Walnut Bottom	Buckley
Feb.	2—Tasker, J. W. & F. E., Old Monroe Mine.....	Swanton	Buckley
"	2—Duckworth Coal Company, No. 1 Mine.....	Mt. Zion	Buckley
"	3—Sines and Crawl, Old Shank Mine.....	Deer Park	Buckley
"	3—Collins Robert, No. 2 Mine.....	Deer Park	Buckley
"	3—Sausman, Harry, Sausman Mine.....	Friendsville	Rowe
"	3—Clover Q. Schlossnagle, Schlossnagle Mine.....	Friendsville	Rowe
"	4—Fike Coal Company, Fike Mine.....	Friendsville	Rowe
"	4—Virts Coal Company, No. 2 Mine.....	Mt. Zion	Buckley
"	4—Ours and Paugh Coal Company.....	Walnut Bottom	Buckley
"	5—Harvey, Ralph, Harvey Mine.....	Mt. Zion	Buckley
"	5—Fazenbaker, James W., No. 2 Mine.....	Mt. Zion	Buckley
"	5—Tichinell Coal Company, No. 1 Mine.....	Mt. Zion	Buckley
"	11—Lantz, Roscoe B., No. 2 Mine.....	Table Rock	Buckley
"	11—Baker Coal Company, Del Signore Mine.....	Table Rock	Buckley
"	17—Upperman Coal Company, No. 1 Mine.....	Deer Park	Buckley
"	18—A. G. Coal Company, A. G. Mine.....	Mill Run	Buckley
"	18—Hittinger Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	18—Mill Run Georges Creek Coal Company, No. 3 Mine.....	Mill Run	Buckley
"	19—Gary Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	24—Myers Coal Company, Susanne No. 1 Mine.....	Deer Park	Buckley
Mar.	4—B B & K Coal Company, Inc., Wolf Den Mine.....	Shallmar	Buckley
"	4—Freeport Coal Company, Hamill Mine.....	Kitzmilller	Buckley
"	6—P & G Coal Company, No. 1 Mine.....	Bloomington	Buckley
"	10—Brashear Coal Company, Brashear Mine.....	Aarons Run	Buckley
"	10—Nelson Coal Company, Nelson Mine.....	Aarons Run	Buckley
"	10—Wilson Coal Company, Wilson Mine.....	Aarons Run	Buckley
"	11—Pritts Brothers Coal Corp., Pee Wee Mine.....	Kitzmilller	Buckley
"	11—Burrell Brothers Coal Corp., Milt No. 1 Mine.....	Kitzmilller	Buckley
"	12—Sharpless, L. B. Coal Company, Rawlings No. 1.....	Kitzmilller	Buckley
"	16—King Coal Company, No. 1 Mine.....	Bethlehem	Buckley
"	17—Shank Coal Company, Old Harvey Mine.....	Mt. Zion	Buckley
"	17—Virts Coal Company, No. 4 Mine.....	Walnut Bottom	Buckley
"	18—Paugh Brothers Coal Company, Paugh Mine.....	Deer Park	Buckley
"	18—Callis Coal Company, No. 2 Mine.....	Deer Park	Buckley
"	19—Feller, E. E. Coal Company, Feller No. 2 Mine.....	Aarons Run	Buckley
"	20—Koontz Coal Company, Swanton No. 3 Mine.....	Barton	Rowe
"	20—Koontz Company, Swanton Strip.....	Barton	Rowe
"	20—Gaither, F. P., Pecal Mine.....	Barton	Rowe
"	26—Shields Run Coal Company, Bachtel Mine.....	Table Rock	Buckley
"	30—Cover, James A., Cover Mine.....	Friendsville	Rowe
"	30—Jones, T. L., Jones Mine.....	Friendsville	Rowe

**MINE INSPECTIONS  
GARRETT COUNTY**

**1953**

<i>Date</i>	<i>Name of Company and Mine</i>	<i>Location</i>	<i>Inspector</i>
Mar.	30—Garrett Coal Corp., Earl No. 2 Mine.....	Vindex	Buckley
"	31—Kimmell, G. W. & Partner, No. 2 Mine.....	Deer Park	Buckley
Apr.	2—Baker Coal Company, Del Signore Mine.....	Table Rock	Buckley
"	15—Collins, Robert, No. 3 Mine.....	Deer Park	Buckley
"	15—Sausman, Harry, Sausman Mine.....	Friendsville	Rowe
"	17—E & S Coal Company, Vietz Mine.....	Friendsville	Rowe
"	17—Glover & Schlossnagle, Schlossnagle Mine.....	Friendsville	Rowe
"	17—Sines & Crowl.....	Deer Park	Buckley
"	16—Duckworth Coal Company, No. 1 Mine.....	Mt. Zion	Buckley
"	17—Table Rock Coal Company, Roth No. 3 Mine.....	Table Rock	Buckley
"	23—Upperman Coal Company, No. 1 Mine.....	Deer Park	Buckley
"	27—Virts Coal Company, No. 2 Mine.....	Mt. Zion	Buckley
"	28—Mill Run Georges Creek Coal Company, No. 3 Mine.....	Mill Run	Buckley
"	28—Bittinger Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	30—A. G. Coal Company, No. 1 Mine.....	Mill Run	Buckley
May	1—Virts Coal Company, No. 4 Mine.....	Walnut Bottom	Buckley
"	7—Stoddard Coal Company, Lantz Mine.....	Table Rock	Buckley
"	7—Shields Run Coal Company, Bachtel Mine.....	Table Rock	Buckley
"	14—P & G Coal Company, No. 1 Mine.....	Bloomington	Buckley
"	15—King Coal Company, No. 1 Mine.....	Bethlehem	Buckley
"	15—Callis Coal Company, No. 2 Mine.....	Deer Park	Buckley
"	15—Aladdin Fuels, Inc., Magic No. 1 Mine.....	Deer Park	Buckley
"	18—Freeport Coal Company, Hamill Mine.....	Kitzmiller	Buckley
"	18—Pitts Brothers Coal Corp., Pee Wee Mine.....	Kitzmiller	Buckley
"	20—Morgan Contracting Company, Strip Mine.....	Grantsville	Stowell
"	21—Robertson, W. A., Yoder Mine.....	Grantsville	Stowell
"	21—Brashear Coal Company, Brashear Mine.....	Aarons Run	Buckley
"	22—Garrett Coal Corp., Earl No. 2 Mine.....	Vindex	Buckley
"	22—Garrett Coal Corp., Earl No. 4 Mine.....	Vindex	Buckley
"	25—Kimmell, G. W. & Partner, No. 2 Mine.....	Deer Park	Buckley
"	27—Myers Coal Company, Susanne No. 1 Mine.....	Bethlehem	Buckley
"	29—B B & K Coal Company, Inc., Wolf Den Mine.....	Shallmar	Buckley
"	29—Sharpless, L. B. Coal Company, Rawlings No. 1.....	Kitzmiller	Buckley
June	3—Harvey, Ralph E. ....	Mt. Zion	Buckley
"	3—Duckworth Coal Company, No. 1 Mine.....	Mt. Zion	Buckley
"	5—Mill Run Georges Creek Coal Co., No. 3 Mine.....	Mill Run	Buckley
"	5—Bittinger Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	8—Virts Coal Company, No. 2 Mine.....	Mt. Zion	Buckley
"	9—Sines & Crowl.....	Deer Park	Buckley
"	11—Collins, Robert, No. 2 Mine.....	Deer Park	Buckley
"	12—Gary Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	15—Burrell Brothers Coal Corp., Mill No. 1 Mine.....	Kitzmiller	Buckley
"	18—Romadale Coal Corp., Romadale No. 2 Mine.....	Grantsville	Stowell
"	30—Mineral Coal Company, Strip Mine.....	Grantsville	Stowell
"	30—Mineral Coal Company, Strip Mine.....	Bittinger	Stowell
July	1—Mineral Coal Company, Strip Mine.....	Negro Mt.	Stowell
"	1—Union Fire Brick Company, Strip Mine.....	Meadow Mt.	Stowell
"	7—Aladdin Fuels, Inc., Magic Mine.....	Deer Park	Buckley
"	14—P & G Coal Company, No. 1 Mine.....	Bloomington	Buckley
"	15—Wilson Coal Company, Wilson Mine.....	Aarons Run	Buckley
"	15—Brashear Coal Company, Brashear Mine.....	Aarons Run	Buckley
"	17—Doerr Coal Company, No. 2 Mine.....	Grantsville	Stowell
"	17—Mineral Coal Company, Strip Mine.....	Meadow Mt.	Stowell
"	18—Sharpless, L. B. Coal Company, Rawlings No. 1.....	Kitzmiller	Buckley
"	23—Jones T. L., Jones Mine.....	Friendsville	Rowe
"	23—Sausman, Harry, Sausman Mine.....	Friendsville	Rowe
"	23—Solomon & Pugh, Solomon Mine.....	Kitzmiller	Buckley
"	23—Whitacre Coal Company, Peerless Mine.....	Kitzmiller	Buckley
"	24—Harrison Coal Company, Roth No. 3 Mine.....	Table Rock	Buckley
"	27—Virts Coal Company, No. 4 Mine.....	Swanton	Buckley
"	31—Garrett Coal Corp., Earl No. 2 Mine.....	Vindex	Buckley
"	31—Tichnell Bros. Coal Company, Earl No. 4 Mine.....	Vindex	Buckley
Aug.	3—Collins, Robert, No. 2 Mine.....	Deer Park	Buckley



MINE INSPECTIONS  
GARRETT COUNTY

1953

<i>Date</i>	<i>Name of Company and Mine</i>	<i>Location</i>	<i>Inspector</i>
Aug.	3—Sines, Denizil .....	Deer Park	Buckley
"	5—Mill Run Georges Creek Coal Co., No. 3 Mine.....	Mill Run	Buckley
"	5—Bittinger Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	6—Shields Run Coal Company, Bachtel Mine.....	Table Rock	Buckley
"	7—M & Y Stripping Company, Bloomington Mine.....	Bloomington	Rowe
"	7—Harvey, Ralph E. ....	Swanton	Buckley
"	7—Duckworth Coal Company, No. 1 Mine.....	Mt. Zion	Buckley
"	7—Virts Coal Company, No. 2 Mine.....	Mt. Zion	Buckley
"	12—Kimmell, G. W. & Partner, No. 2 Mine.....	Deer Park	Buckley
"	12—Paugh Brothers Coal Company, Paugh Mine.....	Deer Park	Buckley
"	13—A. G. Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	14—Pritts Brothers Coal Corp., Pee Wee Mine.....	Kitzmilller	Buckley
"	14—Burrell Brothers Coal Corp., Milt No. 1 Mine.....	Kitzmilller	Buckley
"	18—Robertson, W. A., Yoder Mine.....	Jennings	Stowell
"	19—Fairview Coal Corp., Fairview No. 1 Mine.....	Jennings	Stowell
"	24—Koontz Coal Company, The, Swanton Strip.....	Barton	Rowe
"	24—Carr & Glatfelly Construction Company.....	Bethlehem	Buckley
"	24—King Coal Company, No. 1 Mine.....	Deer Park	Buckley
Sept.	8—Union Fire Brick Company, Strip Mine.....	Jennings	Stowell
"	10—Robertson, W. A., Freepport Mine.....	Bittinger	Stowell
"	11—Klotz Coal Company, Beitzel Mine.....	Pleasant Valley	Stowell
"	28—E & S Coal Company, Vietz Mine.....	Friendsville	Rowe
"	28—Jones, T. L., Jones Mine.....	Friendsville	Rowe
Oct.	8—Collins, Robert, No. 2 Mine.....	Deer Park	Buckley
"	9—Virts Coal Company, No. 4 Mine.....	Walnut Bottom	Buckley
"	16—Callis Coal Company, No. 2 Mine.....	Deer Park	Buckley
"	20—Doerr Coal Company, Doerr No. 2 Mine.....	Negro Mt.	Stowell
"	20—Romadale Coal Company, Romadale Mine.....	Jennings	Stowell
"	23—Burrell Brothers Coal Corp., Milt No. 1 Mine.....	Kitzmilller	Buckley
"	26—Tasker, J. W. & F. E., Old Monroe Mine.....	Walnut Bottom	Buckley
"	26—Virts Coal Company, No. 1 Mine.....	Walnut Bottom	Buckley
"	28—Sharpless, L. B. Coal Company, Rawlings No. 1.....	Kitzmilller	Buckley
"	29—Harrison Coal Company, Roth No. 3 Mine.....	Table Rock	Buckley
"	29—Gorman Coal Company, No. 2 Mine.....	Table Rock	Buckley
"	30—Myers Coal Company, Susanne No. 1 Mine.....	Deer Park	Buckley
Nov.	2—King Coal Company, No. 1 Mine.....	Deer Park	Buckley
"	2—Tucker Coal Company, No. 1 Mine.....	Steyer	Buckley
"	5—Paugh Brothers Coal Company, Paugh Mine.....	Deer Park	Buckley
"	5—Kimmell, G. W. & Partner, No. 2 Mine.....	Deer Park	Buckley
"	5—Upperman Coal Company, No. 1 Mine.....	Deer Park	Buckley
"	10—Gary Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	12—Harvey, Ralph E., No. 2 Mine.....	Mt. Zion	Buckley
"	12—Fazenbaker, J. W., No. 2 Mine.....	Mt. Zion	Buckley
"	12—Jones Coal Company, Jones Mine.....	Friendsville	Stowell
"	16—B B & K Coal Company, Wolf Den Mine.....	Shallmar	Buckley
"	16—Solomon & Paugh Coal Company, Solomon Mine.....	Kitzmilller	Buckley
"	17—Bittinger Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	17—Mill Run Georges Creek Coal Company, No. 3 Mine.....	Mill Run	Buckley
"	19—Breneman & Orendorf, Del Signore Mine.....	Table Rock	Buckley
"	19—Shields Run Coal Company, Bachtel Mine.....	Table Rock	Buckley
"	23—A. G. Coal Company, No. 1 Mine.....	Mill Run	Buckley
"	24—Brashear Coal Company, Brashear Mine.....	Aarons Run	Buckley
"	24—Feller, E. E. Coal Company, Feller No. 2 Mine.....	Aarons Run	Buckley
"	27—Duckworth Coal Company, No. 1 Mine.....	Mt. Zion	Buckley
Dec.	1—Aladdin Fuels, Inc., Magic No. 2 Mine.....	Deer Park	Buckley
"	1—Carr & Glatfelly Construction Company, Strip Mine.....	Deer Park	Buckley
"	2—Miller Coal Company, Kinsinger Mine.....	Grantsville	Stowell
"	2—Yoder Construction Company, Yoder Strip.....	Grantsville	Stowell
"	2—Robertson, W. A., Yoder Mine.....	Grantsville	Stowell
"	2—Virts Coal Company, No. 4 Mine.....	Walnut Bottom	Buckley
"	2—Virts Coal Company, No. 2 Mine.....	Walnut Bottom	Buckley
"	3—Tichinell Brothers Coal Company, Earl No. 4 Mine.....	Vindex	Buckley
"	4—Progressive Coal Company.....	Mt. Zion	Buckley

**MINE INSPECTIONS  
GARRETT COUNTY  
1953**

<i>Date</i>	<i>Name of Company and Mine</i>	<i>Location</i>	<i>Inspector</i>
Dec. 14—	Stoddart Coal Company, Lantz Mine.....	Table Rock	Buckley
" 14—	Harrison Coal Company, Roth No. 3 Mine.....	Table Rock	Buckley
" 17—	Gary Coal Company, No. 1 Mine.....	Mill Run	Buckley
" 21—	Sines, Denzil, No. 2 Mine.....	Deer Park	Buckley
" 21—	Collins, Robert, No. 2 Mine.....	Deer Park	Buckley
" 22—	P & G Coal Company, No. 1 Mine.....	Bloomington	Buckley
" 22—	Wilson Coal Company, Wilson Mine.....	Aarons Run	Buckley
" 23—	Virts Coal Company, Shank Mine.....	Walnut Bottom	Buckley
" 23—	Tasker, J. W. & F. E., No. 2 Mine.....	Walnut Bottom	Buckley
" 24—	Callis Coal Company, No. 2 Mine.....	Deer Park	Buckley
" 29—	Sharpless, L. B. Coal Company, Hamill Mine.....	Kitzmiller	Buckley*
" 29—	Sharpless, L. B. Coal Company, Hamill Mine.....	Kitzmiller	Powell*
" 30—	Myers Coal Company, Inc., Susanne No. 1 Mine.....	Deer Park	Buckley
" 30—	Grantsville Coal Company, Shaw Mine.....	Grantsville	Powell
" 30—	Bittinger Coal Company, Bittinger Mine.....	Mill Run	Powell

\* Indicates joint inspection.

**CLYDE J. ROWE**

On November 1, 1953, Clyde J. Rowe retired from State Service. Mr. Rowe had served as District Mine Inspector faithfully for 25 years. During his last years with the Maryland Bureau of Mines, he was "Inspector-at-Large" and this position took Mr. Rowe into both of the mine inspection Districts of Maryland.

Mr. Rowe was born in Illinois on October 24, 1883, and has been identified with the coal mining industry in American since 1900. He served with the U. S. Army during World War I.

In 1926, Mr. Rowe was awarded a "First Class Mine Foreman's Certificate of Competency" in Maryland; and, in 1928 was employed by The Maryland Bureau of Mines as a District Mine Inspector and has served the people of Maryland in that capacity until his retirement on November 1, 1953.

Mr. Rowe is well known and had many friends among the miners, officials and operators in the mining industry in the coal producing states. He is a life member of the The Mine Inspectors' Institute of America, having been a member for 25 years, and he was active in other organizations that promote safety and general welfare for the people employed in coal mining.

During his last year of State service, Mr. Rowe is credited with saving the life of a miner, trapped by fallen rock and debris in the Winter & Brode Mine at Midlothian, Maryland. Mr. Rowe discovered the fall during a routine inspection visit; and, due to his quick evaluation of the situation and presence of mind in summoning help immediately, the man was removed with no harm.

Mr. Rowe also was responsible for collecting and preparing the coal samples that were shipped and analyzed for Germanium content, the results of which appear elsewhere in this report.

### KITZMILLER MINE RESCUE TEAM

The Kitzmiller Mine Rescue Team, 1951 National Champions, again competed in the National Mine Rescue Contest held in Fort Wayne, Indiana, September 30, October 1 and 2, 1953.

The Kitzmiller team was not as fortunate in 1953 as in 1951, and placed eighth in the National Contest as they competed against crack teams from the larger coal producing states.

The team was sponsored by the United Mine Workers of America, District 16, and was financed by them, and the coal operators in Allegany and Garrett Counties. These men were trained under Mr. F. D. Baker, U. S. Bureau of Mines, H. B. Buckley of the Maryland Bureau of Mines, and L. C. Hutson of the University of Maryland.

The members of the team are Captain Carl Schell, Chester Evans, Carl Paugh, Mervin Sims, Lee Hartman, Richard Sherwood, Jr., and Carlton Mosser, who all reside in the vicinity of Kitzmiller, Maryland.

This team is still intact and has regular practice sessions. Western Maryland is fortunate in having this well trained Rescue Team, and this team and the Maryland Bureau of Mines are working with the Maryland Civil Defense Agency in providing adequate Rescue service for all cases of emergency.

### SAFETY ORDERS

During the calendar year 1953, fifteen (15) Safety Orders were issued by the District Mine Inspectors of the Bureau of Mines.

These Safety Orders are listed as follows:

Edward A. Stowell, District Mine Inspector, District No. 1.

May 25—

Violation of Section 101a, of the Mining Laws—"Volume of Air." The Safety Order was complied with.

July 15—

Three identical Special Safety Orders were issued. Violation of Sections 115 and 116 of the Mining Laws—"Substations and switchboards," and "Power Circuits." These Safety Orders were complied with.

July 22—

Violation of Section 33—"Duties and powers of Inspectors"—regarding Insurance; Section 101a, "Volume of Air"; also Section 77, "Mine Openings and Escapeways." The Safety Order was complied with.

November 9—

Violation of Section 77 of the Mining Laws—"Mine Openings and Escapeways," Section 104D, "Examinations for Gas and Dangerous Conditions." Permissible flame safety lamps were not provided. Also, Section 142, "Fire Prevention and Control." This mine was closed until the Safety Order was complied with.

November 9—

Violation of Section 77 of the Mining Laws—"Mine Openings and Escapeways"; Section 104D, "Examinations for Gas and Dangerous Conditions." Permissible flame safety lamps were not provided. Also, Section 142, "Fire Prevention and Control." This mine was ordered closed until the Safety Order was complied with.

November 10—

Violation of Section 77 of the Mining Laws—"Mine Openings and Escapeways"; Section 104D, "Examinations for Gas and Dangerous Conditions." Permissible flame safety lamps were not provided. Also, Section 142 and 141, "Fire Prevention and Control," and "Surface Fire Prevention." This mine was closed until the Safety Order was complied with.

November 12—

Violation of Section 77 of the Mining Laws—"Mine Openings and Escapeways"; Section 106, "Communication and Signaling." The Safety Order was complied with.

Harry B. Buckley, District Mine Inspector, District No. 2.

February 18—

Violation of Section 77 of the Mining Laws—"Mine Openings and Escapeways"; Section 78, "Timbering System"; also, Section 141, "Surface Fire Prevention." The Safety Order was complied with.

February 25—

Violation of Section 141c of the Mining Laws—"Surface Fire Prevention"; also, Section 142, "Fire Prevention and Control." This mine was closed until the Safety order was complied with.

March 19—

Violation of Section 99 of the Mining Laws—"Main Fans." The Safety Order was complied with.

April 17—

Violation of Section 78 of the Mining Laws—"Timbering System"; Section 101, "Volume of Air"; Section 116, "Power Circuits"; also, other numerous violations were noted. This mine was closed until the Safety Order was complied with.

December 14—

Violation of Section 91 of the Mining Laws—"Clearance and Shelter Hoists"; Section 116, "Power Circuits"; Section 118, "Circuit Breakers and Switches"; also, Section 117, "Grounding." The operator was given 30 days in which to comply with all of the violations in this Safety Order.

December 22—

Violation of Sections 138 and 138A of the Mining Laws—"Control of Coal Dust," and "Rock Dusting." Also, Section 148, "Blasting Practices"; also, Section 104D, 116 and 117, "Examinations for Gas and Dangerous conditions" (Flame Safety

lamps were not provided), "Power Circuits" and "Grounding." The operator was given 60 days in which to clear up these violations.

### PROSECUTIONS

During the calendar year 1953, it was only necessary to obtain one warrant against a coal mine operator, due to the continued violations of the Maryland Mining Law.

The warrant was obtained against the operator for failing to make the required Monthly Tonnage Reports. The operator was ordered to pay a fine and costs.

### METHOD OF TRANSPORTING COAL

The method of transporting Maryland coal from the mine to the railroad car has not changed much during the year 1953. A large number of mines in Maryland are smaller mines and coal is transported from the mines to central loading points, where the coal is cleaned and sized and made ready for shipment. This method has helped the smaller operator a great deal and more of these central loading tipples are being installed from time to time. During the year 1953 two (2) new loading points of this type were erected.

### LABOR CONDITIONS—1953

Labor conditions during the year 1953 were changed somewhat from 1952. Three Garrett County mines suspended operations during the year. Two of these operations were small and employed two and five men respectively. However, the third operation was the largest coal operation in Garrett County, and employed a total of 38 men.

One of the small operations has been taken over by another operator, and it is expected to mine coal in the near future. At the present time, however, there is no prospect of the other operations resuming.

The labor conditions remained unchanged in Allegany County during 1953.

### REPORT ON GERMANIUM

During the year 1952, considerable excitement and anticipation became evident in coal-producing areas of the United States. At that time, it was announced that the rare metal "Germanium" had been discovered in coal seams. This metal is a very important strategic and economical material widely used in the field of Electronics.

In mid-1952, Mr. Edward Cross of the Cross Fuel Company, working on his own, discovered minute quantities of Germanium in the Franklin Seam near Westernport, Allegany County, Maryland.

In October, 1952, Mr. Henry Brown of the Pennsylvania Coal & Coke Corporation, Fairmont, West Virginia, asked the Maryland Bureau of Mines to cooperate in investigating the various coal seams of Maryland in search of this rare metal. It was arranged to forward all samples to the laboratories of The Eagle-Picher Company of Joplin, Missouri, for analysis.

Mr. Clyde J. Rowe, District Mine Inspector, was designated by the Maryland Bureau of Mines to take charge of collecting, labelling and shipping the samples.

Listed below are the results of sixty-eight samples submitted to the Eagle-Picher Company for analysis.

<i>E-P Spectre Ref. No.</i>	<i>Seam</i>	<i>Mine</i>	<i>Position</i>	<i>% Oxi- da- tion Residuc</i>	<i>% Ge (Oxi- da- tion Residuc)</i>	<i>% Ge in Coal</i>
5211-151	Franklin	Cross	Top of Middle Ply	34.65	0.0010	0.00035
5211-152	Franklin	Cross	Bottom of Middle Ply	14.81	0.0017	0.0025
5211-153	Franklin	Hoffa	Bottom of Top Bench	11.29	0.0010	0.00011
5211-154	Franklin	Hoffa	Top of the Top Bench	23.66	0.013	0.00295
5211-155	Franklin	Hoffa	Bottom of Lower Bench	23.26	0.012	0.00280
5211-156	Freeport	Feller	Top of Freeport Seam	27.60	0.0010	0.00028
5211-157	Franklin	Hoffa	Top of Bottom Bench	20.50	0.0034	0.00070
5211-158	Freeport	Feller	Bottom of Freeport Seam	9.03	0.0010	0.00009
5211-159	Franklin	Cross	Top of Upper Bench	21.26	0.0010	0.00021
5211-160	U. Freeport	Robertson	Top U. Freeport Seam	15.69	0.0020	0.00031
5211-161	H. Freeport	Robertson	Bottom of U. Freeport	11.44	0.020	0.00228
5211-162	L. Kitt.	Wolfe	Top of Upper Bench	14.23	0.0020	0.00028
5211-163	L. Kitt.	Wolfe	Bottom of Upper Bench	11.96	0.0010	0.00012
5212-152	Freeport	Hughes	Top	11.95	0.010	0.0012
5212-153	Freeport	Hughes	Bottom	26.12	0.001	0.00026
5212-154	U. Kitt.	Welsh & Clark	Bottom	33.23	0.019	0.0063
5212-155	U. Kitt.	Welsh & Clark	Top	29.14	0.020	0.0058
5212-156	Franklin	Cross	Bottom of Lower Bench	15.52	0.012	0.0019
5212-157	Bakerstown	Moore	Bottom	25.82	0.001	0.00026
5212-158	Bakerstown	Moore	Bottom	21.00	0.001	0.00021
5212-159	Bakerstown	Gary	Bottom	18.22	0.001	0.00018
5212-160	Bakerstown	P. & G.	Top	15.59	0.001	0.00016
5212-161	Bakerstown	P. & G.	Pugs	28.89	0.015	0.0043
5212-162	Bakerstown	P. & G.	Bottom	17.65	0.0084	0.0015
5212-163	Redstone	Barnes & Son	Top of Middle Ply	13.74	0.001	0.00014
5212-164	Redstone	Barnes & Son	Bottom of Lower Ply	33.84	0.001	0.00034
5212-165	Redstone	Barnes & Son	Top of Upper Ply	17.89	0.001	0.00018
5212-166	Redstone	Barnes & Son	Bottom of Middle Ply	12.18	0.001	0.00012
5212-167	Redstone	Barnes & Son	Bottom of Upper Ply	25.88	0.001	0.00026
5301-783	Freeport	Manor	Top of Bottom Coal	16.42	0.0032	0.00053
5301-784	U. Kitt	Manor	Bottom of Seam	15.18	0.0066	0.0010
5301-785	Clarion	Manor	Top of Seam	16.46	0.019	0.0031
5301-786	Freeport	Manor	Top of Seam	12.22	0.014	0.0017
5301-787	Freeport	Manor	Bottom of Seam	13.64	0.026	0.0035
5301-788	U. Kitt.	Manor	Top of Seam	18.72	0.0025	0.00047
5301-789	Clarion	Manor	Bottom of Seam	12.11	0.021	0.0025
5301-790	Pittsburgh	Macanec	Bottom of Bottom Coal	19.11	0.001	0.00019
5301-791	Pittsburgh	Macanec	Lens Between Bottom Slates	17.27	0.001	0.00017
5301-792	L. Kitt.	Jones	Top of Upper Bench	17.41	0.0030	0.00052
5301-793	L. Kitt.	Jones	Lower Bench	30.88	0.0084	0.0026
5301-794	Brush Creek	Cover	Bottom of Seam	22.32	0.032	0.0071
5301-795	Freeport	Callis	Top of Seam	23.85	0.001	0.00024
5301-796	Freeport	Callis	Bottom of Seam	8.12	0.029	0.0024
5301-797	Freeport	Callis	Top of Seam	23.99	0.019	0.0045
5301-798	L. Kitt.	Upperman	Top of Seam	16.65	0.0072	0.0012
5301-799	L. Kitt.	Upperman	Middle Coal of Seam	10.19	0.0084	0.00085
5301-800	L. Kitt.	Upperman	Bottom Coal of Seam	9.93	0.0088	0.00087
5306-526	Freeport	Robertson	Middle 24" of Seam	26.15	0.013	0.0034
5306-527	U. Kitt.	Welsh & Clark	Bottom 15" of Seam	7.48	0.002	0.00015
5306-528	U. Kitt.	Welsh & Clark	Top 15" of Seam	23.27	0.002	0.00047
5306-529	U. Kitt.	Welsh & Clark	Bottom of Center Half	18.63	0.001	0.00019
5306-530	U. Kitt.	Welsh & Clark	Top of Center Half	14.27	0.001	0.00014
5306-531	L. Kitt.	Manor No. 3	Bottom, Sticker	30.28	0.019	0.0058
5306-532	L. Kitt.	Manor No. 3	Bottom 12" of Seam	16.91	0.0023	0.00039
5306-533	L. Kitt.	Manor No. 3	Top 12" of Seam	30.71	0.001	0.00031

<i>E-P Spectre</i> Ref. No.	<i>Seam</i>	<i>Mine</i>	<i>Position</i>	<i>% Oxida- tion Residue</i>	<i>% Ge (Oxida- tion Residue)</i>	<i>% Ge in Coal</i>
5306-534	L. Kitt.	Jones	Bottom 8" of Upper Bench	19.54	0.001	0.00020
5306-535	Sewickley	McGregor	Bottom 6" of Seam	25.50	0.001	0.00026
5306-536	Sewickley	McGregor	Top 6" of Seam	16.46	0.0066	0.0011
5306-537	Clarion	Manor	Bottom 12" of Seam	15.69	0.0042	0.00066
5306-538	Freeport	Manor	Top 36" of Seam	9.30	0.0036	0.00033
5306-539	Freeport	Manor	Bottom 36" of Seam	10.70	0.0076	0.00081
5306-540	Clarion	Manor	Top 12" of Seam	23.50	0.002	0.00047
5306-541	Freeport	Callis	Bottom 32" of Seam	15.23	0.001	0.00015
5306-542	C.Prime	Fike	Bottom 6" of Seam	20.85	0.015	0.0031
5306-543	C.Prime	Fike	Top 6" of Seam	15.39	0.0024	0.00037
5306-045	Random Sample			7.33	0.0015	0.00011

## INORGANIC MINERAL SPECIMENS

<i>E-P Spectre</i> Ref. No.	<i>Sample Description &amp; Remarks</i>	<i>Estimated % (Major &amp; Minor Elements)</i>											
		<i>Ge</i>	<i>Mg</i>	<i>Ca</i>	<i>Fe</i>	<i>Al</i>	<i>Ti</i>	<i>Mn</i>	<i>Si</i>	<i>Cu</i>	<i>Co</i>	<i>Ni</i>	
5301-641	White parting (app. 1/16" thick) from Upperman Mine; Hardness—app. 3.5; effervesce with dilute, cold HCL. (Carbonate of Mg, Ca and Fe with small percentage of Mn.)	0.001	30	30	2	0.1	0.01	0.3	0.5	(T-R-A-C-E)			
5301 KF	Specimens found in and near the Sewickley Coal Seam, Hoffa Mine, in the Georges Creek Section of Maryland. <i>Mineralogical Examination Data:</i>												
	1. Arrangement of crystal faces agrees with that of quartz.												
	2. Surface markings on the faces and the inclusions visible with low magnification are those common to quartz.												
	3. Hardness—7 (Mohs' scale).												
	4. Specific gravity: 0.01 unit from that of quartz.												
	5. Conclusion—specimens are quartz crystals of reasonably high purity.												

This investigation was completed during the year 1953. While a number of the coal seams contained small amounts of Germanium, the results were somewhat discouraging. We have been advised by Dr. A. P. Thompson, Director of Research, The Eagle-Picher Company, that our coals apparently do not contain sufficient amounts of Germanium to make recovery operations economically possible when the coal is mined for the Germanium solely; however, at some future time, it might be expedient to recover this metal from the ash residue at large centrally located power generating stations, factories, etc.

### ACTIVITIES OF RODNEY W. SELDERS—FUEL COMBUSTION ADVISOR, FOR THE YEAR 1953

During the year 1953, Mr. Selders spent a total of 125 days in the office and laboratory in Westernport, and 49 days in the field collecting coal samples, Germanium samples, advising on coal preparation, etc. Sixty-two days were devoted to State Institutions that use coal as a primary fuel. During that time all of the State Institutions that used coal were visited at least once.

Mr. Selders conducted a series of classes for the employees of The Baltimore City Board of Education for a two week period, in the summer months of 1953. Several days were also devoted to the Smoke Abatement program of the City of Cumberland and two days were devoted to the Allegany County Board of Education.

Several new pieces of equipment were added to the laboratory in 1953, including a Bomb Calorimeter, and a Turbidometer. A semi-portable room was built to house the Calorimeter in a draft free atmosphere.

Approximately 300 samples were processed during 1953, mostly samples of delivered coal from the various State Institutions.

During the year 1953, 11 complaints were received by this Department, pertaining to the quality of coal purchased for State consumption. With two exceptions, these complaints concerned sizing of coal or entrained moisture. The excessive moisture in most cases could be traced to inclement weather while the coal was in transit.

## REPORT OF VOCATIONAL MINING EDUCATION

School Year, September 29, 1952—August 1, 1953

L. C. HUTSON

Instructor, Mine Safety Engineering

## REPORT ON THE NIGHT MINING CLASSES

The Night Mining Classes opened their sessions September 29, and closed June 6, 1953.

During the above period five weekly classes were conducted in Garrett and Allegany Counties.

### Organization And Schedule

The Night Mining Classes were organized and conducted at the following points:

Crellin .....	Monday Night
Bethlehem .....	Tuesday Night
Jennings .....	Wednesday Night
Friendsville .....	Thursday Night
Frostburg .....	Friday Night

The above schedule of classes was changed to some extent throughout the school year. On January 14, 1953, it was found necessary by reason of small attendance to discontinue the Jennings class. At the same time it was found expedient to meet at Friendsville on Wednesday night instead of Thursday night as previously scheduled. A Safety Training Program was then set up with the cooperation of the Maryland Bureau of Mines, which scheduled a training course in the use and care of Gas Masks, together with Mine Rescue training in the use of Oxygen Breathing Apparatus, to fill out the weekly itinerary. Classes were held in these subjects at Kitzmiller, Deer Park and Friendsville.

The above named classes met weekly, with the exception of holidays and adverse weather conditions, for a period of thirty-four weeks.



The subjects studied were as follows:

Flame Safety Lamps  
 Coal Mine Gases  
 Air Coursing  
 Coal Mine Ventilation  
 Map Reading

Duration of class periods averaged two clock hours each.

**CRELLIN CLASS**

Number of men enrolled .....	17
Average age of men .....	37 yrs.
Average previous educational preparation .....	8.2 yrs.
New men enrolled .....	4
Occupations:	
Miners .....	9
Laborers .....	5
Officials and Operators .....	3

**BETHLEHEM CLASS**

Number of men enrolled .....	32
Average age of men .....	35 yrs.
Average previous education preparation .....	7.4 yrs.
New men enrolled .....	18
Occupations:	
Miners .....	14
Laborers .....	7
Officials and Operators .....	10
Students .....	1

**JENNINGS CLASS**

Number of men enrolled .....	21
Average age of men .....	39 yrs.
Average previous educational preparation .....	8.0 yrs.
New men enrolled .....	15
Occupations:	
Miners .....	11
Laborers .....	3
Officials and Operators .....	7

**FRIENDSVILLE CLASS**

Number of men enrolled .....	11
Average age of men .....	40 yrs.
Average previous educational preparation .....	8.4 yrs.
New men enrolled .....	4
Occupations:	
Miners .....	2
Laborers .....	2
Officials and Operators .....	5
Students .....	2

**FROSTBURG CLASS**

Number of men enrolled .....	23
Average age of men .....	38 yrs.
Average previous educational preparation .....	6.4 yrs.
New men enrolled .....	13
Occupations:	
Miners .....	9
Laborers .....	3
Officials and Operators .....	11

## DEER PARK—FRIENDSVILLE—KITZMILLER

(Gas Mask and Mine Rescue Training)

Number of men enrolled—(Deer Park) .....	15
Number of men enrolled—(Kitzmilller) .....	13
Number of men enrolled—(Friendsville) .....	15

## Summary Of The Night Classes

Total number of men enrolled .....	137
Average weekly attendance (all classes) .....	44.4
Average weekly attendance (Crellin Class) .....	9.7
Average weekly attendance (Bethlehem Class) .....	9.7
Average weekly attendance (Friendsville Class) .....	8.0
Average weekly attendance (Jennings Class) .....	7.7
Average weekly attendance (Frostburg Class) .....	10.3
Average weekly attendance (Gas Mask, Mine Rescue Classes) ....	11.0
Average age of men enrolled .....	38 yrs.
Average previous educational preparation .....	7.7 yrs.
Attendance of men as compared to enrollment .....	32%
Number of Americans (Native born) enrolled .....	100%
Number of new men enrolled (85) .....	63%
Miners enrolled (45) .....	33%
Laborers enrolled (54) .....	39%
Officials and Operators enrolled (38) .....	27%
Students enrolled (3) .....	2%

## REPORT ON THE SHORT COURSE IN COAL MINING—1953

L. C. HUTSON, Director

The thirtieth annual Short Course in Coal Mining was held at Frostburg, Maryland, beginning June 15, 1953 and ending July 24, 1953.

Instruction was given in the Science Building of State Teachers College, for four weeks, five nights per week. Two class periods were held each night for a duration of one hour each.

Instruction was then given in Gas Testing for a period of one week, the instruction period being five nights per week, the duration of each class averaging 2.5 hours.

The Course was held by the University of Maryland in cooperation with the Maryland Bureau of Mines, the United States Bureau of Mines, the State Board of Education, and the County Boards of Education of Garrett and Allegany Counties.

## Instruction Staff And Subjects

L. C. Hutson, Instructor

Explosives—Mine Gases—Mine Ventilation—Air Coursing—  
Mine Map Reading—Mine Fires and Explosion, Mining Methods.

Thomas J. Ward—Harry Jones, Federal Mine Inspectors

C. J. Rowe—Edward Stowell, Harry Buckley, State Mine Inspectors  
Flame Safety Lamps—Gas Testing

### Schedule of Classes

First Week:		
Explosives		6:00 to 7:00 P.M.
Mining Methods		7:15 to 8:15 P.M.
Second Week:		
Mine Gases		6:00 to 7:00 P.M.
Mining Methods		7:15 to 8:15 P.M.
Third Week:		
Ventilation		6:00 to 7:00 P.M.
Map Reading		7:15 to 8:15 P.M.
Fourth Week:		
Mine Fires and Explosions		6:00 to 7:00 P.M.
Map Reading		7:15 to 8:15 P.M.
Fifth Week:		
Flame Safety Lamps		
Gas Testing		5:00 to 9:00 P.M.

As in previous years, the Gas Testing Program was in charge of the United States Bureau of Mines, in cooperation with the Maryland Bureau of Mines. Practice testing for explosive and non-respirable gases was given, followed by supervised and recorded tests for each individual student.

The above tests were made under variable conditions, by the use of the Flame Safety Lamp, in a special testing gallery constructed for that purpose.

### Enrollment

Name	Age	Occupation	Employer
Paul Nickel	24	Laborer	Karl Nickel
Ellsworth Filer	46	Operator	Self
Clement Jeffries	42	Operator	Self
Noah E. Baker	49	Miner	Big Savage Refractories
Florian Nickel	55	Carpenter	Self
Bernard Henaghan	43	Laborer	Self
George Henckel	45	Miner	Unemployed
Eugene Jeffries	17	Student	Unemployed
Lawrence Rank	25	Miner	Lewis Rank
Arch Baker	58	Carpenter	Self
Ray Stott	25	Miner	Self
George Walker	38	Miner	Consolidated Fuel Co.
Harold Jenkins	46	Miner	Self
E. E. Chidester	44	Operator	Self
James Thompson	51	Operator	Self
Richard Watkins	32	Miner	
Robert Carter	29	Miner	
William Buskirk	41	Operator	Self

### Summary Of The Short Course

The enrollment of the Short Course totaled eighteen. The majority of the men enrolled were operators of small mines who desired to become Certified Mine Foremen. The attendance was steady and the interest remained constant throughout the course. One of the highlights of this course was that two of the students had taken the course on two previous years. Their interest and cooperation was exceptional.

### Summary of the Night Classes and The Short Course in Coal Mining

Total number of men enrolled .....	155
Average weekly attendance, Night Mining Classes .....	44.4
Average weekly attendance, Short Course in Coal Mining .....	40.0
Number of Night Mining Classes held .....	160
Number of Short Course Classes held .....	50
Total attendance, Night Mining Classes .....	1511
Total attendance, Short Course in Coal Mining .....	404
Combined attendance .....	1915
Total number of classes held .....	210
Average attendance of each class held .....	9.1

### CONCLUSION

The school year just completed was marked chiefly by an increase in enrollment over that of last year, but the attendance failed to measure up in proportion. This was mainly due to broken time at many of the mine operations with a consequent shifting of men from one part of the area to another, which of course results in spotty attendance at the classes.

As this is written, the coal trade, which is always the barometer of interest in this program, is passing through one of its periodic lows; but, with the coming of cool weather, the seasonal improvement can be predicted.

One fact is apparent, the need for this program remains as great or greater than ever. The increase in smaller operations poses an ever increasing difficulty in enforcing safety regulations, leaving education of the individual the best method yet found for the prevention of accidents and preservation of natural resources.