

TWENTY-SIXTH 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 1948



TO

HON. WILLIAM PRESTON LANE, Jr.

GOVERNOR OF MARYLAND

JOHN J. RUTLEDGE

Chief Mine Engineer



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LETTER OF TRANSMITTAL

To His Excellency,

HON. WILLIAM PRESTON LANE, JR.,
Governor of Maryland.

SIR:

I have the honor to submit herewith the Twenty-sixth Annual Report of the Maryland Bureau of Mines for the period January 1, 1948, to December 31, 1948, in compliance with the requirements of the Maryland Mining Law.

Very respectfully,

JOHN J. RUTLEDGE,
Chief Mine Engineer.

REPORT OF THE MARYLAND BUREAU OF MINES 1948

To His Excellency,

HON. WILLIAM PRESTON LANE, JR.,

Governor of Maryland.

SIR:

The report herewith submitted is for the calendar year 1948, and is the Seventy-second 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:

CLAY AND COAL PRODUCTION

	(Net tons, cwt.)
Pick	691,906.05
Machine	584,249.09
Strip	503,911.07
Total	1,780,067.01

COAL PRODUCTION

ALLEGANY COUNTY: — During the calendar year 1948, Allegany County mines employed 618 miners, 88 drivers (including motormen, brakemen, etc.) 152 inside laborers and 134 outside employees, making a total of 992 men. The production of coal for 1948 was 752,188.08 net tons. This shows a production of 1,217.13 per miner employed during this period.

GARRETT COUNTY: During the calendar year 1948, Garrett County mines employed 448 miners, 128 drivers (including motormen, brakemen, etc.), 226 inside laborers and 255 outside employees, making a total of 1057 men. The production of coal for 1948 was 896,298.18 net tons. This shows a production of 2030.66 net tons per miner employed during this period.

FIRE CLAY PRODUCTION

ALLEGANY COUNTY: During the calendar year 1948, the fire clay mines in Allegany County employed 45 miners, 12 drivers, 10 inside laborers and 5 outside employees, making a total of 72 men. The production of fire clay during 1948 was 72,499.15 net tons, and shows a production of 1611 net tons per miner.

GARRETT COUNTY: During the calendar year 1948, there were 59,080.00 net tons of fire clay produced in Garrett County, all stripped, employing 21 outside employees. This shows a production of 2813.33 tons per employee.

TONNAGE PER FATALITY — ALLEGANY COUNTY

Three (3) fatal accidents occurred in the coal mines of Allegany County during the calendar year 1948, making 250,729 net tons of coal produced for each fatal accident; number of fatalities per 1,000 men employed 3.024; number of fatalities per 1,000,000 net tons of coal produced 3.988.

TONNAGE PER FATALITY — GARRETT COUNTY

Five (5) fatal accidents occurred in the coal mines of Garrett County during the calendar year 1948, making 179,259 net tons of coal produced for each fatal accident; number of fatalities per 1,000 employees 4.73; fatalities per 1,000,000 net tons of coal produced 5.578.

TONNAGE PER FATALITY — ENTIRE STATE

During the calendar year 1948 there were 1,648,487.06 net tons of coal produced in Maryland, and there were eight (8) fatal accidents in the coal mines of the State. Fatalities per 1,000 employees 3.9; fatalities per 1,000,000 net tons of coal 4.852.

WEIGHMASTER LICENSES FOR THOSE WEIGHING SOLID FUEL

During the year 1948, in compliance with the provisions of Chapter 349, Laws of Maryland, 1937, the Bureau continued to inspect the weigh-scales of all those engaged in weighing solid fuel in the State of Maryland, outside the City of Baltimore, 257 truck scales being tested, 20 of which were retested. In addition the Bureau inspected 9 tobacco warehouse scales.

From the inception of the work under Chapter 349, Laws of Maryland, 1937, up to and including December 31, 1948, the Bureau of Mines issued 4,786 weighmaster licenses, the fee for each license being \$10.00, and this money was turned over to the State Treasurer.

From January 1, 1948, to December 31, 1948, inclusive, 404 weighmaster licenses were issued.

**COAL TRANSPORTED BY RAILROADS TRAVERSING
THE WESTERN MARYLAND COAL FIELD
CALENDAR YEAR 1948**

Coal shipments over the Cumberland and Pennsylvania Railroad, which traverses the center of the George's Creek coal field, amounted to 555,187 net tons.

There were 669,055 net tons of coal transported by the Western Maryland Railway from the mines located on their line in Western Maryland during 1948. Of this total, 149,580 net tons originated in the George's Creek District.

During 1948 the mines located on the Baltimore and Ohio Railroad in Western Maryland made coal shipments amounting to 69,216 net tons.

STATE MINE EXAMINING BOARD

The following Certificates were awarded as a result of the twenty-seventh examination for mine foremen and fire bosses conducted at Frostburg, Allegany County, Maryland, August 24 and 25, 1948:

FIRST CLASS

Allman, Hilbert Albert	Kempton
Cook, Tony William	Kempton
Gotto, Sr., Albert Pete	Mt. Lake Park
Knotts, Edgil Ray	Kempton
Lantz, Darrell K.	Kempton
Mance, Marko Simon	Oakland
Repetsky, Walter James	Kempton
Tasker, Curry Allen	Kempton
Vanhorn, Orda Alphus	Kempton
Watring, Morris Richard	Kempton

SECOND CLASS

Bray, Kenneth Ambrose	Shallmar
Eckhart, William Edward	Frostburg
Pyle, Vernon William	Shallmar
Rohrbaugh, Claud Oliver	Kitzmilller
Shillingburg, John Franklin	Oakland
Wiles, Rex L.	Crellin
Wilson, Thomas Earl	Lonaconing
Ross, George Stewart	Lonaconing

FIRE BOSS

Geroski, John Harold	Kempton
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PERSONNEL, MARYLAND BUREAU OF MINES

Chief Mine Engineer

John J. Rutledge.....State Office Building, Annapolis

District Mine Inspectors

Frank T. Powers.....Frostburg

Clyde J. Rowe.....Westernport

Inspector, Weights and Mine Scales

J. DeSales Maher.....Midland

Stenographer-Secretary

Mrs. Julia Jefferson Walbeck.....Annapolis

Senior Typist

Miss Doris L. Dull.....Annapolis

Mine Examining Board

John J. Rutledge, Chairman.....Annapolis

John R. Hamilton, Representing Operators.....Lonaconing

Seidel Turner, Representing Miners.....Vindex

COAL MINES HAVING NO PHYSICAL CONNECTION WITH RAILROADS

Allegany County—1948

Name of Operating Company and Mine	Net Tons Cwt.
Aden Coal Mine.....	3,192.00
Ajax Coal Company, McDonald No. 3 Mine.....	5,079.11
Ajax Coal Company, McDonald No. 2 Mine.....	10,180.04
Atkinson Fuel Mine.....	512.00
Ayers Coal Company, Ayers Mine.....	1,334.00
Ayers Coal Company, Ayers Mine.....	504.00
Barnes & Son, Henry So., (strip).....	4,720.00
Bennett Coal Co., No. 1 Mine.....	4,327.00
Bennett Coal Co., No. 2 Mine.....	399.00
Big Savage Coal Co., Big Savage Mine.....	107.00
Blank, Walter E., Mutts Mine.....	6,921.00
Brashear, William, Old Hampshire No. 1.....	124.19
Broadwater & Johnson, Jackson Mine.....	362.00
Brumage, Kitzmiller & Brumage, Hampshire No. 4 Mine.....	569.00
Burkhart Coal Company.....	39.00
Butcher Run Coal Co., Blubaugh Mine.....	2,520.08
Campbell Coal Co., Mill Run Mine.....	6,004.10
Charlestown Big Vein Coal Co.....	1,379.00
Clark & Bro., Thomas J., Clark No. 2 Mine.....	3,999.09
Clark Coal Co.....	3,023.10
Crites, John R., Parker No. 2.....	2,371.00
Connor Haines Big Vein Coal Co., Jackson Mine.....	340.00
J. W. Cook.....	3,381.08
Cresop Coal Company, Stoney Run Mine.....	1,351.08
W. R. Eisel.....	134.00
Fazenbaker & Son, Stanley.....	1,166.00
Filer Fuel Mine.....	1,099.00
Filsinger, William.....	114.00
Fletcher, Clarence.....	568.00
Franklin Coal Co., Franklin Mine.....	556.00
Gunstan Coal Co., Gunstan Mine.....	3,758.03
Harden Coal Co., No. 1 Mine.....	2,113.00
Hill Top Mining Company.....	26,608.00
Hobel, Joseph, Hobel Mine.....	344.00
A. P. Hoffa Coal Company, Hoffa No. 4 Mine.....	29,521.00
Hughes Coal Company, Columbia Mine.....	3,616.00
Jenkins & Swarman, Watkins Mine.....	1,120.00
Kammauf, William J.....	1,299.00
Kirkwood Coal Co.....	2,071.18
Kitzmiller Coal Company.....	71.00
Kyle Brothers.....	846.00
Kyle & Beeman, Jackson No. 4 Mine.....	3,278.00
Liberty Fuel Mine.....	1,024.00
McClay Coal Mining Corp.....	14,756.01
McKenzie & Jeffries, Borden Mine.....	483.00
Macanek Coal Company, Knapp Meadow No. 1 Mine.....	2,117.00
Macanek Coal Company, Macanek Mine.....	1,977.00
MacDonald Bros., Sang Run Mine.....	187.00
Maryland Fuel Company.....	6,670.00
Metz, Chester W.....	844.00
Metz Coal Company, Metz Mine.....	3,069.00

Name of Operating Company and Mine	Net Tons Cwt.
Michaels Coal Company, Michaels Mine	3,063.00
Midland Mining Company, Inc.	2,203.04
Miller & Sons, Jacob T., Sunny Tyson No. 1	813.00
Mill Run Coal Company	3,210.10
Moore, Alvie E., Moore Mine	1,614.00
Moore, Vincent E., Moore Mine	55.00
Morrison, Dale	129.00
New Fuel Company, Tyson Mine	355.00
New Fuel Company, Big Vein	392.00
Parker Fuel Mine, Wm.	267.00
Parkersburg Coal Co., Parkersburg Mine	426.00
M. D. Porter, Blank Mine	279.00
Porter Coal Company, Porter Mine	1,816.00
Ringler's Big Vein Coal Company, Pioneer Mine	19,257.00
Robison Coal Company, Toll Gate Mine	508.00
Russell Coal Company, Russell Mine	2,038.00
Shriver & Drummond, Borden No. 6 Mine	349.00
Stewart Mining Company, Blackberry Mine	1,478.00
Tharp, George, Borden Mine	346.00
Trimble, Jesse, Little Pittsburgh Mine	243.00
Virginia Coal Company, Virginia No. 1 Mine	1,768.14
Waddell, Douglas, Waddell Mine	9,114.00
Ware, Jones and Cutter, Barnes Mine	1,134.00
Wilt & McKenzie	70.00
Winner Fuel Co., Albert, No. 7 Mine	500.00
Winters & Brode	391.00
Campbell Coal Company, Franklin Strip	3,261.19
Total	227,232.16

Garrett County—1948

Ajax Coal Company, Mine No. 1	14,686.09
Arnold, Nay, Shields Run Mine	187.02
Atlas Excavating Company, Fobey's Delight	30,488.05
J. A. Beachy, Beachy Mine	4,536.05
R. C. Blackburn, No. 3 Strip	458.00
Blue Flame Coal Mining Company, Table Rock Mine	1,606.00
L. J. Botscheller, Inc., Strip	5,546.00
Eowman Bros. Coal Company, Bowman Strip	3,869.15
Eowman, Clyde, Patton Mine	630.00
Eray Coal Company, North America Mine	435.00
Broadwater, Lee, Broadwater Mine	55.00
Collins, Robert	703.00
Del Signore Coal Company, Gilbert Mine	23.00
Double B Coal Company, Old North American Mine	720.00
Duckworth Coal Company, Duckworth Mine	3,171.00
Dunlo Coal Company, Taylor Mine (Round Glade)	13,586.07
Dunlo Coal Company, Brookville Coal Seam	631.14
Dunlo Coal Company, Lee Strip	9,305.05
Fazenbaker, James, No. 1 Mine	329.10
Fazenbaker, James, No. 2 Mine	1,380.00
Franklin Hills Mining Co., Phoenix Hoffa No. 4 Strip	6,869.04
F. P. Gaither, Strip	20,065.07
Garrett County Refractories Co., Negro Mt. Coal Strip	4,327.13
Grantsville Coal Company, Shaw Mine	10,856.00
W. H. Haenftling Coal Co., Haenftling Mine	2,454.00

FOR THE CALENDAR YEAR 1948

9

Harr Mining Company, Donald No. 2 Mine.....	23,158.02
Harvey, Carl P.....	44.00
Harvey, Ralph.....	387.00
Harvey, Charles A., Harvey's Mine.....	3,183.00
Hebb, William, Upperman No. 2 Mine.....	192.00
Herman, Irvin G., Herman Mine.....	1,476.00
Jones, William, Jones Mine.....	107.00
Kelley & Moreland, Shields Run No. 2 Mine.....	1,428.00
King Coal Company, Harvey-Dawson No. 2 Mine.....	1,472.00
Koontz Coal Company, Strip.....	1,522.00
Lantz, Roscoe B., Table Rock No. 2 Mine.....	2,999.00
Laurel Stripping Co., Manor 3-C Strip.....	39,592.16
Laurel Stripping Co., Manor 3-B Strip.....	2,392.03
Lee Coal Company, Ezra Michaels No. 2 Mine.....	4,522.00
M. & M. Coal Company, Laurel No. 1 Mine.....	1,479.14
Mason, Dewey, Mason Mine.....	142.10
Michaels & Howard Coal Company.....	1,449.00
Mill Run Georges Creek Coal Company, Ezra Michaels No. 1.....	4,034.00
Miller & Davis, Strip.....	8,360.04
Moran & Sons, Edw. W., James No. 1 Strip.....	14,784.00
Moran & Sons, Edw. W., James No. 2 Strip.....	42,300.00
Myers Coal Company, Luise No. 2 Mine.....	5,082.16
Myers Coal Company, Luise No. 3 Mine.....	15,074.11
Nethkin Coal Co., George M., Milt No. 1 Mine.....	3,945.09
Pattison, Charles, Pattison No. 1-2.....	3,274.00
Pattison, Charles, Pattison No. 3.....	1,259.00
Paugh Brothers Coal Company.....	1,540.00
Pritts Brothers Coal Co., Inc.....	12,803.11
Rath & Lipscomb, Anderson Mine.....	50.00
Riggleman, James W.....	160.00
Selders, Elmer, No. 1 Anderson.....	58.04
Sharpless Coal Company, Rawley No. 1 Mine.....	5,386.00
Sisler Coal Company, Dodson No. 2 Mine.....	4,209.07
Steyer, Keith W., Triumph Mine.....	99.00
Tasker Coal Company, Harvey-Dawson No. 1 Mine.....	1,659.00
Tasker (John W.) and Lewis Sharpless.....	175.00
Tichnell Coal Company.....	3,156.00
Upperman, William, Upperman No. 1 Mine.....	3,223.00
Virts Coal Company, Pew Mine.....	9,716.00
Warnick & Sons, Lester V., Warnick Mine.....	1,664.00
Wilson Bros., Wilson Mine.....	1,440.00
Total.....	365,909.03

BUREAU OF MINES
SUMMARY OF PRODUCTION STATISTICS
1948

COAL

	Allegheny County	Garrett County	Total Net Tons Cwt.
Pick	400,870.01	245,462.05	646,332.06
Machine	144,803.01	424,211.12	569,014.13
Strip	206,515.06	226,625.01	433,140.07
Total	752,188.08	896,298.18	1,648,487.06

Employees

Miners	618	448	1066
*Drivers	88	128	216
Inside Laborers	152	226	378
Outside Employees	134	255	389
Total	992	1057	2049

FIRE CLAY

Pick	45,573.19	.....	45,573.19
Machine	15,234.16	.....	15,234.16
Strip	11,691.00	59,080.00	70,771.00
Total	72,499.15	59,080.00	131,579.15

Employees

Miners	45	.....	45
*Drivers	12	.....	12
Inside Laborers	10	.....	10
Outside Employees	5	21	26
Total	72	21	93

*Drivers include Motormen, Brakemen, etc.

**COMPARATIVE STATEMENT OF STATISTICS OF
COAL AND CLAY PRODUCTION
1947-1948**

COAL

Allegany County

Year	Net Tons (cwt.)	Miners	* Drivers	Inside Laboreers	Outside Employees	Total	Fatalities
1947	904,134.13	658	99	163	220	1,140	4
1948	752,188.08	618	88	152	134	992	3

Garrett County

1947	1,145,861.17	479	133	175	235	1,022	1
1948	896,298.18	448	128	226	255	1,057	5

Entire State

1947	2,049,996.10	1,137	232	338	455	2,162	5
1948	1,648,487.06	1,066	216	378	389	2,049	8

FIRE CLAY

Allegany County

1947	156,159.05	43	12	14	4	73	...
1948	72,499.15	45	12	10	5	72	...

Garrett County

1947	45,895.00	.....	.....	.....	5	5	...
1948	59,080.00	.....	.....	.....	21	21	...

Entire State

1947	202,054.05	43	12	14	9	78	...
1948	131,579.15	45	12	10	26	93	...

*Drivers include Motormen, Brakemen, etc.

FATAL ACCIDENTS—1948**ALLEGANY COUNTY**

On August 14, 1948, about 9:15 A. M., three assistant mine foremen lost their lives in Waynesburg No. 5 Mine of the Georges Creek Coal Company, Inc., Lonaconing, Allegany County, as a result of a gas ignition. These men were entering No. 2 Room off 3rd Left Heading to rock-dust with the Rock-dusting machine, one car of rock-dust and the locomotive when gas was ignited.

RECOMMENDATION: Mine Foreman with a First-class Certificate of Competency should be employed and the open places should be inspected each shift day by a Fire-Boss. Machine-men should be equipped with safety lamps and all places should be inspected before electric equipment is taken into a place. A qualified fire-boss should be employed. When cutting clay veins a line brattice should be maintained until a cross-cut is provided. At least two rolls of brattice cloth should be on hand at all times.

Time of Inspection and by Whom: August 14, 15, 16, 17, 18 and 22, 1948, by District Mine Inspectors Frank T. Powers and Clyde J. Rewe; Dan Walker, Jr., Engineer-in-Charge, U. S. Bureau of Mines, and Federal Coal-mine Inspectors Thomas McDonald and William Baldwin.

Inspector in Charge of District: Frank T. Powers, Frostburg, Md.

Statistics of Fatality

Name of Victim:	Robert Dodds
Time of Accident:	August 14, 1948, about 9:15 A. M.
Time of Death:	August 14, 1948
Nationality:	American
Age:	42 years
Married or Single:	Married
Number of Dependents:	4
Residence:	Lonaconing, Md.
Name of Victim:	George Loar
Time of Accident:	August 14, 1948, about 9:15 A. M.
Time of Death:	August 14, 1948
Nationality:	American
Age:	38 years
Married or Single:	Married
Number of Dependents:	4
Residence:	Lonaconing, Md.
Name of Victim:	Bernard Smith
Time of Accident:	August 14, 1948, about 9:15 A. M.
Time of Death:	August 14, 1948
Nationality:	Hungarian
Age:	47 years
Married or Single:	Married
Number of Dependents:	5
Residence:	Zihlman, Md.



GEORGE'S CREEK COAL CO., INC.
LONA CONING, MD.
PLAT OF AREA IN WAYNESBURG MINE NO. 5
 IN CONNECTION WITH FATAL ACCIDENT
 TO MR. BERNARD SMITH, MR. GEORGE LOAR AND
 MR. ROBERT DODDS
 AUGUST 14, 1948
 SCALE: 1" = 20'

THIS IS TO CERTIFY THAT THIS PLAT IS A TRUE AND
 ACCURATE REPRESENTATION OF THE AREA INDICATED BY
 THE TITLE, AND THAT THE DATA SHOWN HEREON IS COR-
 RECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

AUGUST 20, 1948
 Philip Hartig, Jr.
 MARYLAND REG. SURV. 1403

Statistics of Coal Production, Calendar Year 1948

ALLEGANY 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		
				Miners	Drivers	Inside Laborers	Outside Employees		Pick	Machine	Strip	Total	Fatal	Non-Fatal	
															Total
Maryland Fuel Company	Maryland No. 2	1	Big Vein	8	1	1	1	207	6,670.00	.....	.....	.....	.....	2
Metz, Chester W.			Bakerstown	1				204	844.00	.....	.....	.....	.....	.....
Metz Coal Company		2	Bakerstown	4	1	.....	.....	179	3,069.00	.....	.....	.....	.....	1
Michaels Coal Company	Michaels		Big Vein	3	.....	.....	.....	282	3,063.00	.....	.....	.....	.....	.....
Midland Mining Company, Inc.			Big Vein	4	.....	.....	.....	235	2,203.04	.....	.....	.....	.....	.....
Miller & Son, Jacob T.	Sunny Tyson No. 1		Tyson	2	.....	.....	.....	143	813.00	.....	.....	.....	.....	.....
Mill Run Coal Company	No. 1	1	Bakerstown	18	3	1	2	30	3,210.10	.....	.....	.....	.....	.....
Miners Big Vein Coal Co.	Bivecol	2	Big Vein	2	1	.....	.....	196	6,063.06	.....	.....	.....	.....	2
Moore, Alvie E.	Moore		Bakerstown	2	.....	.....	.....	107	1,614.00	.....	.....	.....	.....	.....
Moore, Vincent E.	Old Mill No. 2		Dixie Nine	1	.....	.....	.....	11	55.00	.....	.....	.....	.....	.....
Morrison, Dale			Bakerstown	6	.....	.....	.....	.....	129.00	.....	.....	.....	.....	.....
New Fuel Company			Tyson	2	.....	.....	.....	95	355.00	.....	.....	.....	.....	.....
New Fuel Company			Big Vein	3	.....	.....	.....	62	382.00	.....	.....	.....	.....	.....
Parker Fuel Mine, Wm.	Parker	1	Big Vein	1	.....	.....	.....	.....	267.00	.....	.....	.....	.....	.....
Parkersburg Coal Company	Parkersburg		Big Vein	2	1	.....	.....	71	126.00	.....	.....	.....	.....	.....
M. D. Porter	Blank		Bakerstown	1	.....	.....	.....	.....	279.00	.....	.....	.....	.....	.....
Porter Coal Company	Porter		Tyson	1	.....	.....	.....	162	1,816.00	.....	.....	.....	.....	.....
Rank & Sons, Louis	No Tick		Big Vein	4	.....	.....	.....	77	653.00	.....	.....	.....	.....	.....
Ringlor's Big Vein Coal Company	Pioneer	4	Big Vein	1	.....	.....	.....	243	19,257.00	.....	.....	.....	.....	.....
Robison Coal Company	Toll Gate		Bakerstown	19	.....	.....	.....	178	508.00	.....	.....	.....	.....	.....
Robison Coal Company	Russell		Big Vein	2	1	.....	.....	163	2,038.00	.....	.....	.....	.....	.....
Russell Coal Company	Borden, No. 6		Big Vein	3	.....	.....	.....	190	349.00	.....	.....	.....	.....	.....
Shriver & Drummond	Little Hope		Big Vein	2	.....	.....	.....	271	366.00	.....	.....	.....	.....	.....
Staken, John T.	Blackberry		Big Vein	2	.....	.....	.....	75	1,478.90	.....	.....	.....	.....	.....
Stewart Mining Co.	Stoney Run		Big Vein	3	.....	.....	.....	145	.....	.....	.....	.....	.....	.....
Stoney Run Coal Company	Borden		Big Vein	.....	.....	.....	.....	172	346.00	.....	.....	.....	.....	2
Tharp, George	Little Pittsburgh		Big Vein	2	.....	.....	.....	200	243.00	.....	.....	.....	.....	.....
Trimble, Jesse	Virginia No. 1		Bakerstown	2	.....	.....	.....	81	1,768.14	.....	.....	.....	.....	.....
Virginia Coal Company	Waddell	1	Big Vein	5	3	1	.....	122	9,114.00	.....	.....	.....	.....	.....
Waddell, Douglas	Waddell		Big Vein	6	.....	.....	.....	230	1,134.00	.....	.....	.....	.....	.....
Ware, Jones & Carter	Barnes	1	Big Vein	2	1	.....	.....	247	70.00	.....	.....	.....	.....	.....
Wilt & McKenzie	No. 7	1	Big Vein	2	.....	.....	.....	11	500.00	.....	.....	.....	.....	.....
Winner Fuel Co., Albert			Big Vein	2	.....	.....	.....	150	391.00	.....	.....	.....	.....	.....
Winters & Brode			Big Vein	2	.....	.....	.....	149	.....	.....	.....	.....	.....	.....
Totals.....				618	88	152	134	992	14,380	400,870.01	144,803.01	206,515.06	752,188.08	3	52

FIRE CLAY PRODUCTION—ALLEGANY COUNTY

Big Savage Refractories Corporation	Big Savage	3	Clay	33	10	8	4	55	247	45,573.19	.....	.....	11,691.00	57,264.19	15
Mc Savage Refractories Company	Barrelville		Claren Clay	12	2	2	1	17	226	.....	15,234.16	.....	.....	15,234.16	.....
Totals.....				45	12	10	5	72	473	45,573.19	15,234.16	11,691.00	72,499.15	.....	15

5 Jackhammers

Statistics of Coal Production, Calendar Year 1948

GARRETT COUNTY

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 and Equipment:	
				Miners	Drivers *	Inside Laborers	Outside Employees		Total	Pick	Machine	Strip	Total	Fatal		Non-Fatal
Ajax Coal Company	No. 1	1	Bakerstown	15	3	1	1	20	14,686.09	16,344.16	.....	.....	.....	3	2 35L Jeffrey
Allegheny Coal Company	No. 1	1	Bakerstown	17	4	2	1	24	303.00	16,047.16	.....	.....	.....	.....	{ 1 34-B dragline; 2 D7 Tractor;
Arnold, Nay	Shields Run	1	Kittanning	3	1	.....	.....	4	187.02	.....	.....	.....	.....	{ 1 Koehring shovel;	
Atlas Excavating Company	Robeys Delight	Strip	.....	.....	.....	.....	13	13	.....	.....	30,488.05	.....	.....	{ 1 Schramm Compressor	
J. A. Beachy	Beachy	1	Up. Freeport	5	2	.....	.....	7	4,536.05	.....	.....	4,536.05	.....	.....
Bittinger & Stark	Bittinger	Strip	Bakerstown	1	.....	.....	.....	1	100.00	.....	.....	100.00	.....	.....
R. C. Blackburn	No. 3	1	Freeport	3	.....	4	.....	10	458.00	.....	458.00	.....	.....	.....
Blue Flame Coal Mining Company	Table Rock	Strip	Freeport	3	.....	5	.....	3	1,606.00	.....	5,546.00	.....	.....	{ 1 dragline; 2 shovels;	
L. J. Botscheller, Inc.	.....	.....	.....	.....	.....	.....	5	5	.....	.....	.....	.....	.....	{ 2 doz. compressors	
Bowman Bros. Coal Co.	Bowman	Strip	Up. Freeport	.....	.....	.....	5	5	.....	3,869.15	.....	3,869.15	.....	Bulldozer	
Bowman, Clyde	Patton	.....	Up. Freeport	2	.....	.....	.....	2	630.00	.....	.....	630.00	.....	.....
Bray Coal Company	North America	1	Kittanning	3	.....	.....	.....	3	435.00	.....	.....	435.00	.....	.....
Broadwater, Lee	Broadwater	.....	.....	1	.....	.....	.....	1	55.00	.....	.....	55.00	.....	.....
Collins, Robert	Collins	.....	Bakerstown	2	.....	.....	.....	2	703.00	.....	.....	703.00	.....	.....
Cover, James A.	Cover	.....	Brush Creek	2	.....	.....	.....	2	746.00	.....	.....	746.00	.....	.....
Davis Coal & Coke Company	Kempton No. 42	2	Up. Freeport	.....	22	141	12	175	.....	166,810.00	.....	.....	.....	39	{ Shuttle cars; 1 Joy loader; 2
Del Signore Coal Co.	Gilbert	1	Lr. Kittanning	2	.....	.....	.....	2	23.00	.....	.....	23.00	.....	.....	{ Arcwells; 13 bottom machines; 3
Double B. Coal Co.	Old North American	.....	Kittanning	2	.....	.....	.....	2	720.00	.....	.....	720.00	.....	.....	{ shaker conveyors; 7 Jeffrey chain
Duckworth Coal Co.	Duckworth	Strip	Freeport	7	1	.....	.....	8	2,419.00	732.00	.....	.....	.....	.....	{ loaders; 9 HP chain loaders; 4 belt
Dunlo Coal Company, Inc.	Taylor	Strip	Brookville	.....	.....	.....	22	22	13,586.07	.....	.....	.....	.....	4	3 shovels; 2 dozers
Dunlo Coal Company, Inc.	Taylor (deep)	Strip	Brookville	.....	.....	5	.....	5	631.14	.....	.....	631.14	.....	.....	3 shovels; 2 dozers
Dunlo Coal Company, Inc.	Lee	Strip	Freeport	.....	.....	.....	22	22	9,305.05	.....	.....	9,305.05	.....	.....	.....
Fagenbaker, James W.	No. 1	.....	Freeport	3	.....	.....	.....	3	329.10	.....	.....	329.10	.....	.....	.....
Fike Coal Company	No. 2	.....	Lr. Kittanning	.....	.....	.....	.....	.....	1,380.00	.....	.....	1,380.00	.....	.....	.....
Fike Coal Company	Fike	.....	Copper	.....	.....	.....	.....	.....	1,115.00	.....	.....	1,115.00	.....	.....	.....
Franklin Hills Mining Company	Phoenix Hoffa No. 4	Strip	Big Vein	1	2	.....	4	6	1,115.00	.....	.....	1,115.00	.....	.....	1 shovel; 1 tractor
Gaither, F. P.	Earl No. 2	Strip	Big Vein	.....	.....	.....	8	8	20,065.07	.....	.....	20,065.07	.....	.....	{ Shovel and dozer
Garrett Coal Corporation	Earl No. 2	1	Lr. Kittanning	39	13	1	12	65	58,124.00	7,281.00	.....	.....	.....	5	{ 2 cutting machines; 2 duckbills
Garrett County Refractories Co.	Negro Mt.	Strip	Seam "E"	.....	.....	.....	15	15	4,327.13	.....	4,327.13	.....	.....	.....	{ conveyors; 2 locomotives
Grantsville Coal Company	Shaw	.....	Bakerstown	9	1	1	1	15	10,856.00	.....	.....	.....	.....	.....	.....
W. H. Hoefling Coal Co.	Hoefling	Strip	Big Vein	4	1	.....	.....	124	2,454.00	.....	.....	.....	.....	.....	.....
Harr Mining Company	Donald No. 2	.....	Brookville	.....	.....	.....	11	11	23,158.02	.....	23,158.02	.....	.....	.....	.....
Harvey, Carl P.	Tasker	.....	Bakerstown	2	.....	.....	.....	2	44.00	.....	.....	44.00	.....	.....	.....
Harvey, Ralph	Harvey's	2	Freeport	1	1	.....	.....	2	387.00	.....	.....	387.00	.....	.....	Miller machine
Harvey, Charles A.	Upperman No. 2	.....	Freeport	5	1	.....	.....	6	880.00	2,303.00	.....	.....	.....	.....	.....
Hobb, William	Herman	.....	Freeport	2	.....	.....	.....	2	192.00	.....	.....	192.00	.....	.....	.....
Herman, Irvin G.	Manor No. 3	1	Freeport	2	1	.....	.....	3	544.00	932.00	.....	.....	.....	.....	.....
Johnston Coal and Coke Company	Manor No. 3	.....	Lr. Kittanning	102	26	45	43	216	37,097.10	159,850.17	.....	.....	.....	57	{ Cutting machine
Jones, William	Jones	.....	Kittanning	2	.....	.....	.....	2	107.00	.....	.....	107.00	.....	.....	{ 9 shaking conveyors; Jeffrey 35 B5;
Kelley & Moreland	Shields Run No. 2	2	Kittanning	3	1	.....	.....	4	1,428.00	.....	.....	1,428.00	.....	.....	{ 35 BB3; 35 BC-3
King Coal Co.	Beitzel	.....	Freeport	3	1	.....	.....	4	1,472.00	.....	.....	1,472.00	.....	.....	.....
Klotz Coal Co.	Beitzel	Strip	Bakerstown	3	1	.....	.....	5	770.10	.....	.....	770.10	.....	.....	.....
Koontz Coal Company	Table Rock No. 2	2	Big Vein	.....	.....	.....	2	2	1,522.00	.....	1,522.00	.....	.....	.....	.....
Lantz, Roscoe B.	Stanton	2	Lr. Kittanning	2	1	1	1	4	2,999.00	.....	.....	2,999.00	.....	.....	.....
Laurel Run Coal Co.	Manor 3-C	Strip	Freeport	.....	.....	5	.....	5	5,147.16	.....	.....	5,147.16	.....	.....	36 B Jeffrey
Laurel Stripping Co.	Manor 3-C	Strip	Up. Kittanning	.....	.....	.....	14	14	39,592.16	.....	.....	39,592.16	.....	.....	{ 1 Bulldozer; 1 3/4 yd. gas shovel;

GARRETT COUNTY

On November 4, 1948, about 11:00 A. M., four miners and one driver lost their lives in Milt No. 1 Mine, (Freeport coal seam), operated by George M. Nethken Coal Company, located near the town of Kitzmiller, Garrett County, as a result of suffocation due to fumes from a fire in the fan house. The fan house was ignited by a fire on the gasoline motor; the fumes entered the main airway, suffocating the victims as they attempted to escape to the surface.

RECOMMENDATION: Elimination of combustible fan housings.
Time of Inspection and by Whom: November 5, 1948, District Mine Inspectors Clyde J. Rowe and Frank T. Powers, and Federal Coal-mine Inspectors.

Inspector in Charge of District: Clyde J. Rowe, Westport, Md.

Statistics of Fatality

Name of Victim:	Robert Jackson
Time of Accident:	November 4, 1948, about 11:00 A. M.
Time of Death:	November 4, 1948
Nationality:	American
Age:	24 years
Married or Single:	Married
Number of Dependents:	None
Residence:	Kitzmiller, Md.
Name of Victim:	Clarence Keller
Time of Accident:	November 4, 1948, about 11:00 A. M.
Time of Death:	November 4, 1948
Nationality:	American
Age:	56 years
Married or Single:	Married
Number of Dependents:	One
Residence:	Kitzmiller, Md.
Name of Victim:	Herman Keller
Time of Accident:	November 4, 1948, about 11:00 A. M.
Time of Death:	November 4, 1948
Nationality:	American
Age:	43 years
Married or Single:	Married
Number of Dependents:	Two
Residence:	Kitzmiller, Md.
Name of Victim:	Martin Keller
Time of Accident:	November 4, 1948, about 11:00 A. M.
Time of Death:	November 4, 1948
Nationality:	American
Age:	60 years
Married or Single:	Single
Number of Dependents:	None
Residence:	Kitzmiller, Md.
Name of Victim:	Charles Kiefer
Time of Accident:	November 4, 1948, about 11:00 A. M.
Time of Death:	November 4, 1948
Nationality:	American
Age:	44 years
Married or Single:	Married
Number of Dependents:	One
Residence:	Mt. Storm, W. Va.



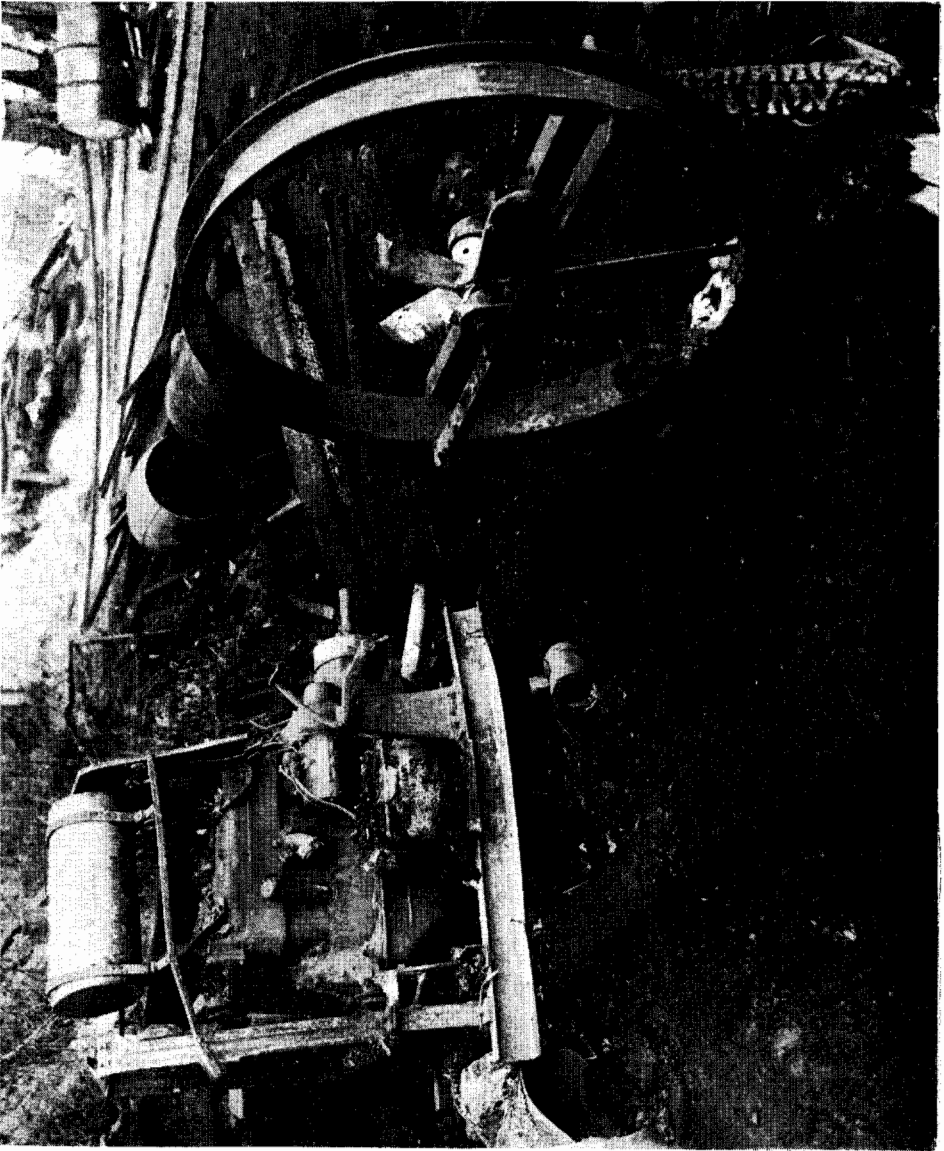
Scene at Milt No. 1 Mine, George Nethkin Coal Company, where five (5) men lost their lives, near Kitzmiller, Garrett County, Maryland.



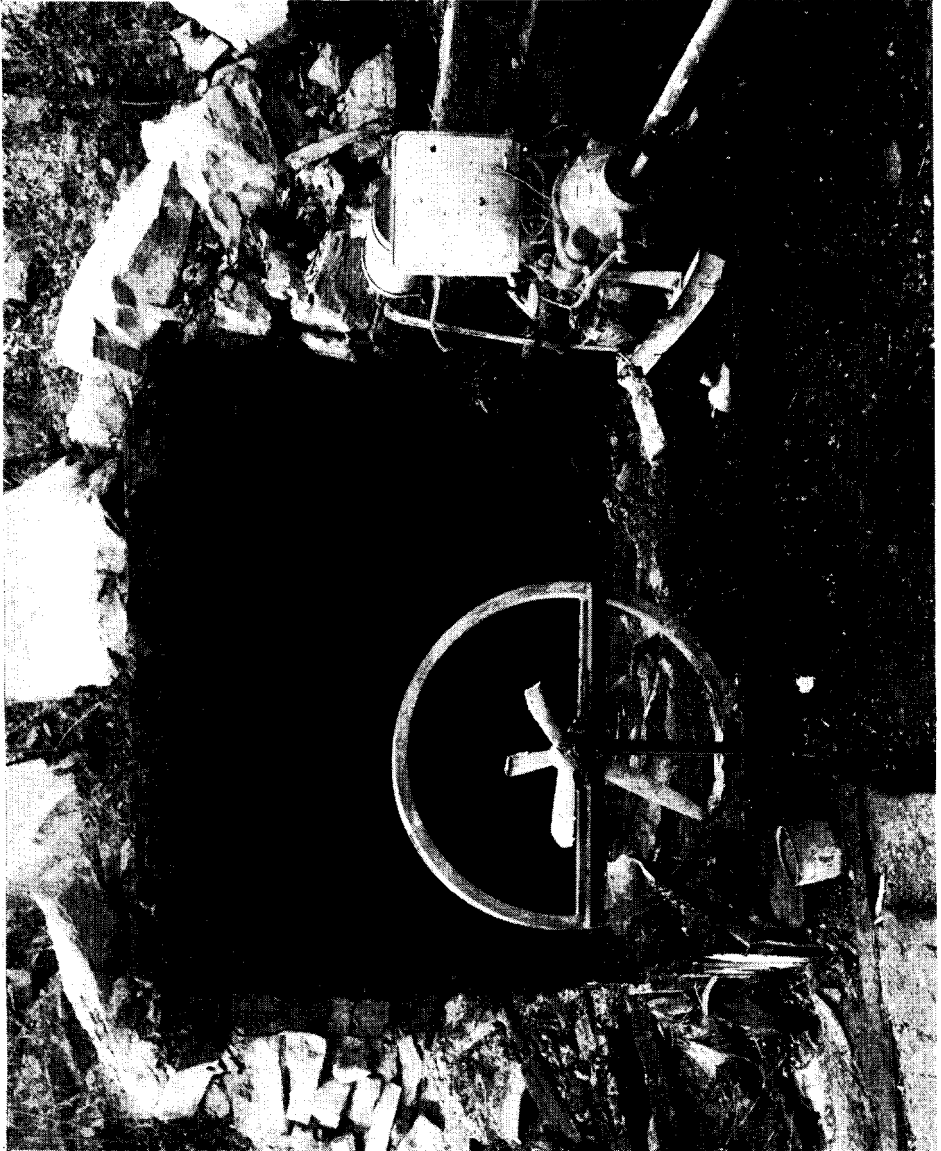
Mitt No. 1 Mine showing charred timber.



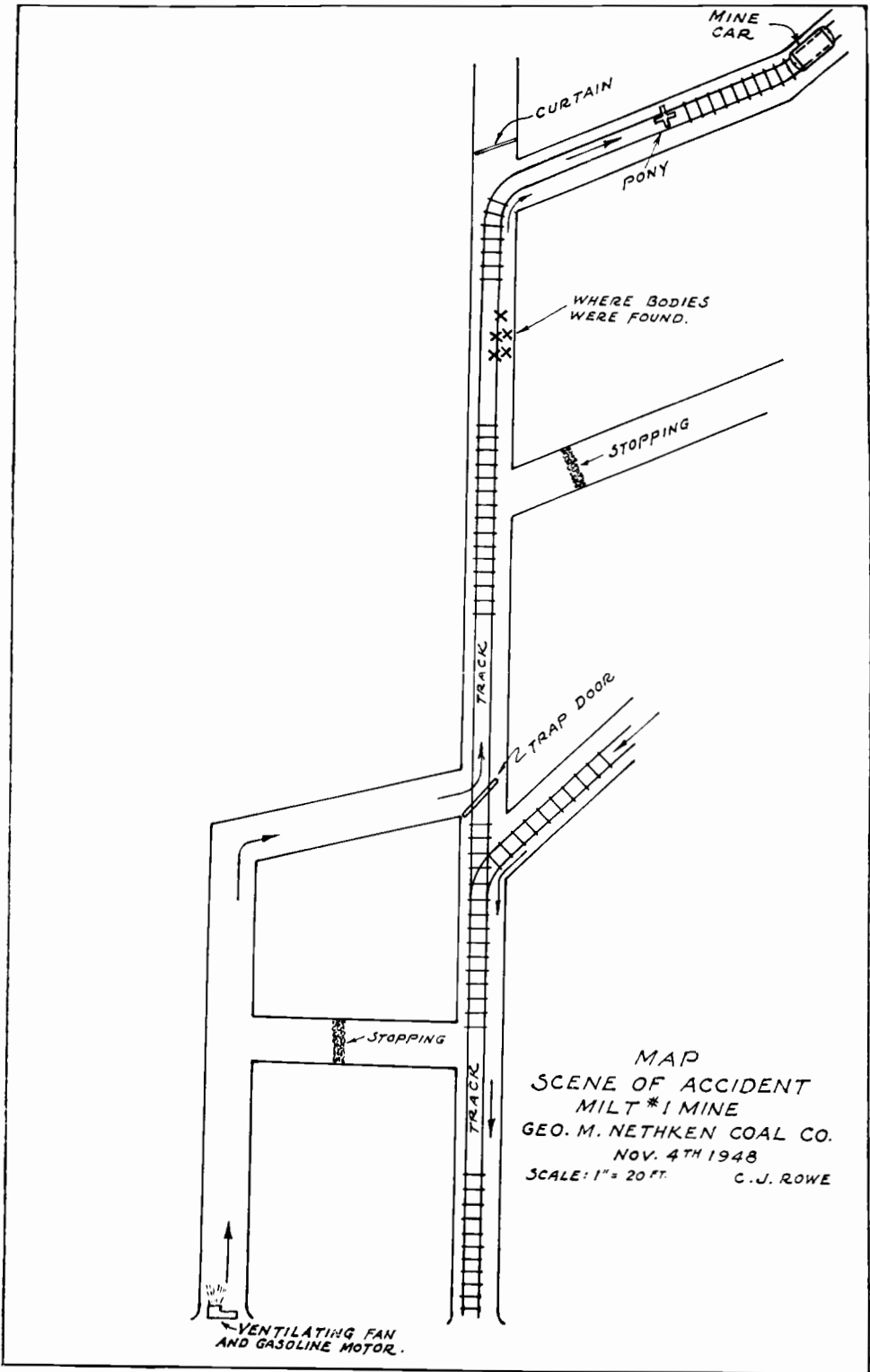
Milt No. 1 Mine showing ventilating fan after fire.



Mill No. 1 Mine showing fan after fire.



Milt No. 1 Mine showing motor and fan after fire.



MAP
SCENE OF ACCIDENT
MILT #1 MINE
GEO. M. NETHKEN COAL CO.
NOV. 4TH 1948
SCALE: 1" = 20 FT. C. J. ROWE

TONNAGE BY COAL SEAM—1948**Allegheny County**

	Net Tons (cwt.)
Big Vein	352,113.05
Tyson	169,758.01
Waynesburg	90,713.10
Bakerstown	75,303.06
Unknown	34,562.06
Franklin	14,020.17
Lower Freeport	6,921.00
Upper Kittanning	3,865.03
Upper Freeport	2,371.00
Parker	1,334.00
Little Pittsburgh	811.00
Baltimore	187.00
Split Six	134.00
Dirty Nine	55.00
Rock	39.00
Total	752,188.08

Garrett County

Lower Kittanning	349,268.06
Upper Freeport	171,976.05
Freeport	75,984.09
Big Vein	66,398.13
Bakerstown	51,879.09
Upper Kittanning	44,154.03
Tyson	42,300.00
Unknown	38,839.13
Lower Freeport	20,157.07
Brookville	14,218.01
"E" Seam	10,856.00
Kittanning	8,263.02
Copper	1,115.00
Brush Creek	746.00
Honeycomb	142.10
Total	896,298.18

TONNAGE BY BASIN—1948

Basin	Net Tons (cwt)
George's Creek	898,573.14
Upper Potomac	669,836.01
Castleman	47,028.05
Upper Youghiogeny	31,081.06
Lower Youghiogeny	1,968.00
Total	1,648,487.06

**TABLE OF MINE INSPECTIONS
ALLEGANY COUNTY
CALENDAR YEAR 1948**

Date	Name of Company and Mine	Address	Inspector
Jan.	2—Consolidated Fuel Company, Mine No. 10.....	Frostburg	Powers
..	5—Mill Run Coal Company, Mine No. 1.....	Westernport	Rowe
..	6—Ringler Big Vein Coal Company, Mine No. 1.....	Mt. Savage	Powers
..	7—Campbell Coal Company, Mill Run.....	Piedmont,W.Va.	Rowe
..	10—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
..	12—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
..	12—A. P. Hoffa Coal Company, Hoffa No. 4.....	Barton	Rowe
..	13—Mt. Savage Refractories Corporation, Clay Mine.....	Barrellville	Powers
..	14—Douglass Waddell Coal Company, Waddell Mine.....	Lonaconing	Powers
..	16—George's Creek Coal Company, Waynesburg No. 5.....	Lonaconing	Powers
..	19—Thomas J. Clark & Bro., Clark's Mine.....	Barton	Rowe
..	19—Earl Michaels Mine.....	Eckhart	Powers
..	19—Parkersburg Coal Company, Engle Mine.....	Eckhart	Powers
..	20—Big Vein Coal Company of Lonaconing, Castle Mine.....	Koontz	Powers
..	22—Hugh Kirkwood Coal Company, Kirkwood Mine.....	Lonaconing	Powers
..	23—Big Vein Coal Company of Lonaconing, Castle No. 1.....	Koontz	Powers
..	26—Big Vein Coal Company of Lonaconing, Castle No. 1.....	Koontz	Powers
..	27—Consolidated Fuel Company, Mine No. 4.....	Eckhart	Powers
Feb.	28—Barnes & Skidmore Coal Company, Strip Mine.....	Midlothian	Powers
..	2—Koontz Coal Company, Swanton V.....	Frostburg	Rowe
..	3—Douglas Waddell Coal Company, Waddell Mine.....	Lonaconing	Powers
..	6—Bennett Coal Company, Bennett No. 1.....	Westernport	Rowe
..	9—Big Vein Coal Company of Lonaconing, Castle No. 1.....	Koontz	Powers
..	9—Metz Coal Company, Metz Mine.....	Barton	Rowe
..	11—George's Creek Coal Company, Inc., No. 2 Big Vein.....	Lonaconing	Powers
11 &	13—Campbell Coal Company, Hampshire No. 2.....	Piedmont,W.Va.	Rowe
..	12—McNitt Coal Company, No. 3 Big Vein.....	Midlothian	Powers
..	13—Campbell Coal Company, Hampshire No. 3.....	Piedmont,W.Va.	Rowe
..	13—Consolidated Fuel Company, Strip Mine.....	Frostburg	Powers
..	16—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
..	16—Jos. M. Meyers, Meyers Mine.....	Barton	Rowe
..	16—McDonald Brothers, Saug Run Mine.....	Barton	Rowe
..	16—Dale Morrison, Old Mill No. 2 Mine.....	Westernport	Rowe
..	17—Butcher Run Coal Company, Blubaugh.....	Frostburg	Rowe
..	17—McNic Coal Company, Federal Hill Strip.....	Frostburg	Powers
..	17—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
..	18—John Clites Coal Company, State Line Mine.....	Barrellville	Powers
..	24—Aden Coal Company, Aden Mine.....	Westernport	Rowe
..	26—McNitt Coal Company, No. 2 Tyson.....	Shaft	Powers
..	27—Johnson Coal Company, No. 3 Mine.....	Barton	Rowe
..	27—Maryland Fuel Company, Maryland No. 3 Mine.....	Frostburg	Rowe
March	1—Consolidated Fuel Company, No. 17 Mine.....	Lord	Powers
..	1—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
..	2—Barnes and Skidmore Coal Company, Strip Mine.....	Midlothian	Powers
..	3—Miners Big Vein Coal Company, Bivecoal No. 1.....	Frostburg	Rowe
..	3—New Fuel Company, Bivecoal No. 5.....	Frostburg	Rowe
..	3—Big Savage Ref's Corporation, Hard Clay Mine.....	Zihlman	Powers
..	5—Joseph Hobel Fuel Mine, Hobel Mine.....	Lonaconing	Powers
..	5—John Clites Coal Company, State Line Mine.....	Barrellville	Powers
..	8—Jacob Miller & Son, Millers Mine.....	Lonaconing	Rowe
..	8—Charlestown B. V. C. Company, Charlestown Mine.....	Lonaconing	Rowe
..	8—Consolidated Fuel Company, No. 10 Mine.....	Eckhart	Powers
..	8—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
..	9—Big Vein Coal Company of Lonaconing, Union No. 1.....	Zihlman	Powers
..	11—Big Savage Ref's Corporation, Hard Clay Mine.....	Zihlman	Powers
..	12—Stanley Fazenbacker & Son, Fazenbacker's Mine.....	Barton	Rowe
..	12—Russell Coal Company, Fuel Mine.....	Lonaconing	Powers
..	12—David Rayner Coal Company, Rayner Mine.....	Gilmore	Powers
..	22—Earl Michaels Coal Company, Michael Mine.....	Eckhart	Powers
..	22—Parkersburg Coal Company, Engle Mine.....	Eckhart	Powers
..	23—E. E. Feller Coal Company, Strip Mine.....	Frostburg	Powers
..	24—Gordon & Hamilton, Robert Mine.....	Rawlings	Rowe

TABLE OF MINE INSPECTIONS
ALLEGANY COUNTY
CALENDAR YEAR 1948

Date	Name of Company and Mine	Address	Inspector
..	29—McNic Coal Company, Federal Hill Strip Mine.....	Frostburg	Powers
..	29—Barnes & Skidmore Coal Company, Strip Mine.....	Midlothian	Powers
..	30—Thos. A. & Vincent Clark, Clark Mine.....	Westernport	Rowe
..	30—Stoney Run Coal Corp., Stoney Run.....	Frostburg	Rowe
..	30—John Clites Coal Company, Elbow Mine.....	Barrellville	Powers
..	31—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
April	7—McClay Mining Company, Hampshire, Tyson Mine..	Cumberland	Rowe
..	7—Beverly Coal Company, Potomac-B Mine.....	Westernport	Rowe
..	9—Robert Clark Coal Company, Fuel Mine.....	Midland	Powers
..	13—E. E. Feller Coal Company, Reeds Farm Strip Mine.	Frostburg	Powers
..	14—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
..	14—Ajax Coal Company, Ajax No. 2.....	Westernport	Rowe
..	16—George's Creek Coal Company, Inc., No. 3 Big Vein	Lonaconing	Powers
..	20—William & Camille Sherman, McMillan Mine.....	Mt. Savage	Powers
..	21—Barnes & Skidmore Coal Company, Strip Mine.....	Midlothian	Powers
..	21—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
..	22—Beverly Coal Company, Potomac-13 Mine.....	Westernport	Rowe
..	22—McClay Mining Company, Hampshire Mine.....	Cumberland	Rowe
..	22—Stoney Run Coal Corporation, Stoney Run Mine.....	Frostburg	Rowe
..	23—Campbell Coal Company, Franklin Mine.....	Piedmont, W. Va.	Rowe
..	23—E. E. Feller Coal Company, Reeds Farm Strip Mine	Frostburg	Powers
..	26—Joseph Hobel Coal Company.....	Frostburg	Powers
..	28—Consolidated Fuel Co., Vale Summit Strip Mine.....	Frostburg	Powers
..	28—Mt. Savage Refractories Corporation, Clay Mine.....	Barrellville	Powers
..	29—F. P. Gaither, Pecal Mine.....	Cumberland	Rowe
..	29—Big Vein Coal Co. of Lonaconing, Un. No. 1 Strip..	Zihlman	Powers
..	30—A. P. Hoffa Coal Company, Barton Mine.....	Barton	Rowe
..	30—Consolidated Fuel Company, No. 1 Mine.....	Ocean	Powers
..	30—McNic Coal Company, Engle Strip Mine.....	Eckhart	Powers
May	3—George's Creek Coal Company, Inc., No. 2 Big Vein	Lonaconing	Powers
..	4—Consolidated Fuel Company, No. 1 Mine.....	Ocean	Powers
..	10—Consolidated Fuel Company, No. 1 Mine.....	Ocean	Powers
..	11—John Clites Coal Company, Elbow Mine.....	Barrellville	Powers
..	11-19—Ringler Big Vein Coal Company, No. 1 Mine.....	Mt. Savage	Powers
..	12—Campbell Coal Company, Mill Run Mine.....	Piedmont, W. Va.	Rowe
..	12—E. E. Feller Coal Company, Strip Mine.....	Frostburg	Powers
..	12—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
..	20—Big Vein Coal Co. of Lonaconing, Castle No. 1.....	Koontz	Powers
..	20—Big Vein Coal Co. of Lonaconing, Strip Un. No. 1..	Zihlman	Powers
..	21—Robertson Coal Company, Toll Gate Mine.....	Frostburg	Powers
..	24—Big Vein Coal Co. of Lonaconing, Union No. 1.....	Zihlman	Powers
..	24—E. E. Feller Company, Strip Mine.....	Frostburg	Powers
..	24—Koontz Coal Company, Swanton B. V. Mine.....	Piedmont, W. Va.	Rowe
..	25—E. E. Feller Coal Company, Strip Mine.....	Frostburg	Powers
..	26—Big Vein Coal Co. of Lonaconing, Castle No. 1.....	Koontz	Powers
..	26—Russell Coal Company, Fuel Mine.....	Lonaconing	Powers
..	27—George's Creek Coal Company, Inc., Franklin Mine..	Lonaconing	Powers
..	28—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
June	1—Stewart Mining Company, Blackberry Mine.....	Mt. Savage	Powers
..	3—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
..	3—McNic Coal Company, Engle Strip.....	Eckhart	Powers
..	10—E. E. Feller Coal Company, Strip Mine.....	Frostburg	Powers
..	16—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
..	16—Porter Bros. Coal Company, Tyson Mine.....	Eckhart	Powers
..	17—George's Creek Coal Co., Inc., No. 2 Big Vein.....	Lonaconing	Powers
..	18—Filer Coal Company, Fuel Mine.....	Midlothian	Powers
..	18—Ware Jones & Cutter Coal Co., Barnes Mine.....	Midlothian	Powers
..	22—Big Vein Coal Co. of Lonaconing, Castle No. 1.....	Koontz	Powers
..	23—Big Vein Coal Co. of Lonaconing, Castle No. 1.....	Koontz	Powers
..	23—Porter Bros. Coal Company, Tyson Mine.....	Eckhart	Powers
..	24—Consolidated Fuel Company, No. 1 Mine.....	Ocean	Powers
..	25—McNitt Coal Company, No. 3 Big Vein.....	Midlothian	Powers
..	29—Consolidated Fuel Company, No. 4 Mine.....	Eckhart	Powers
..	30—George's Creek Coal Co., Inc., No. 3 Big Vein.....	Lonaconing	Powers

TABLE OF MINE INSPECTIONS
ALLEGANY COUNTY
CALENDAR YEAR 1948

Date	Name of Company and Mine	Address	Inspector
July	2—Ringler Big Vein Coal Company, No. 1 Mine.....	Mt. Savage	Powers
"	7—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
"	7—George's Creek Coal Co., Inc., No. 2 Big Vein.....	Lonaconing	Powers
"	7—Campbell Coal Company, Hampshire No. 2 Mine.....	Piedmont, W.Va.	Rowe
"	8—Campbell Coal Company, Hampshire No. 3 Mine.....	Piedmont, W.Va.	Rowe
"	8—Douglas Waddell Coal Company, Waddell Mine.....	Lonaconing	Powers
"	9—Mt. Savage Ref's Corp., Barrellville Clay.....	Barrellville	Powers
"	9—Kitzmiller & Brumage, Kitzmiller Mine.....	Westernport	Rowe
"	12—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
"	19—Stewart Mining Company, Blackberry Mine.....	Mt. Savage	Powers
"	20—Ringler Big Vein Coal Co., Ringler No. 1 Mine.....	Mt. Savage	Powers
"	21—Consolidated Fuel Company, No. 10 Mine.....	Eckhart	Powers
"	22—McNic Coal Company, Engle Strip Mine.....	Eckhart	Powers
"	26—Gunstan Coal Company, Stanton No. 1 Mine.....	Short Gap	Powers
"	26—Thos. J. Clark & Bros., Clark Mine.....	Barton	Rowe
"	27—David Rayner Coal Company, Old Strip Mine.....	Gilmore	Powers
"	27—Maryland Coal Company, No. 3 Mine.....	Frostburg	Rowe
"	29—George's Creek Coal Co., Inc., No. 3 Big Vein.....	Lonaconing	Powers
"	29—Virginia Coal Company, Mill Run Mine.....	Westernport	Rowe
Aug.	2—McNic Coal Company, Engle Strip Mine.....	Eckhart	Powers
"	4—Ringler Big Vein Coal Company, No. 1 Mine.....	Mt. Savage	Powers
"	6—Consolidated Fuel Company, No. 10 Mine.....	Eckhart	Powers
"	9—Old Strip Operations, Dickel Farm Strip.....	Mt. Savage	Powers
"	10—John Clites Coal Company, Elbow Mine.....	Barrellville	Powers
"	11—Big Savage Refractories Corporation, Strip Mine.....	Frostburg	Powers
"	12—George's Creek Coal Co., Inc., No. 3 Big Vein.....	Lonaconing	Powers
"	12—Miners Big Vein Coal Company.....	Frostburg	Rowe
"	14—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Powers
"	15—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Powers
"	16—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Joint
"	16—George's Creek Coal Co., Inc., G No. 5.....	Lonaconing	Joint
"	17—Dale Morrison, Old Mill No. 2.....	Westernport	Rowe
"	17—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Joint
"	18—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Powers
"	19—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Powers
"	20—Ajax Coal Company, McDonald Mine.....	Westernport	Rowe
"	22—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Joint
"	23—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Joint
"	27—John Clites Coal Company, Elbow Mine.....	Barrellville	Powers
"	30—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
"	31—Beeman Coal Company, Fuel Mine.....	Lonaconing	Powers
Sept.	1—Barnes & Skidmore Coal Company, Strip Mine.....	Midlothian	Powers
"	2—Beeman Coal Company, Fuel Mine.....	Lonaconing	Powers
"	7—Ringler Big Vein Coal Company, No. 1 Mine.....	Mt. Savage	Powers
"	9—Consolidated Fuel Company, Vale Summit Strip.....	Frostburg	Powers
"	9—McNic Coal Company, Engle Strip Mine.....	Eckhart	Powers
"	14—Big Vein Coal Co. of Lonaconing, Castle No. 1.....	Koontz	Powers
"	16—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
"	17—John Clites Coal Company, Elbow Mine.....	Barrellville	Powers
"	20—McNitt Coal Company, No. 2 Tyson, No. 3 Big Vein.....	Midlothian	Powers
"	20—Charlestown Big Vein Coal Company.....	Lonaconing	Rowe
"	22—Miller & Beeman, Doolittle Mine.....	Westernport	Rowe
"	22—Stanley Fazenbacker & Son.....	Barton	Rowe
"	23—Stoney Run Coal Corp., Stoney Run.....	Frostburg	Rowe
"	24—Old Stripping Operations, Gilmore & Midland Mines.....	Gilmore & Midl.	Powers
"	27—Big Vein Coal Co. of Lonaconing, Castle No. 1.....	Koontz	Powers
"	28—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
"	29—Ajax Coal Company, Ajax No. 2.....	Westernport	Rowe
"	30—Virginia Coal Company, Mine No. 1.....	Westernport	Rowe
Oct.	5—Consolidated Fuel Company, Mine No. 1.....	Ocean	Powers
"	6—McNic Coal Company, Engle Strip Mine.....	Eckhart	Powers
"	8—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
"	11—Douglas Waddell Coal Company, Waddell Mine.....	Lonaconing	Powers
"	13—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Powers
"	14—George's Creek Coal Co., Inc., Waynesburg No. 5.....	Lonaconing	Powers

TABLE OF MINE INSPECTIONS
ALLEGANY COUNTY
CALENDAR YEAR 1948

Date	Name of Company and Mine	Address	Inspector
..	15—George's Creek Coal Co., Inc., Waynesburg No. 5..	Lonaconing	Powers
..	18—Miners Big Vein Coal Company, Bivecoal No. 1.....	Frostburg	Rowe
..	18—Maryland Fuel Company, Maryland No. 3.....	Frostburg	Rowe
..	25—Mutts Mine Coal Company, Mutt Mine.....	Mt. Savage	Powers
..	26—Big Vein Coal Co. of Lonaconing, Castle No. 1.....	Lonaconing	Powers
..	27—Earl Michaels Coal Company, Michaels Mine.....	Eckhart	Powers
..	27—Consolidated Fuel Company, No. 10 Mine.....	Eckhart	Powers
Nov.	1—Bornes & Skidmore Coal Company, Strip Mine.....	Midlothian	Powers
..	4—George Nethkin Coal Company, Milt Mine.....	Kitzmilller	Joint
..	4—McNitt Coal Company, No. 2 Tyson Mine.....	Shaft	Powers
..	5—George Nethkin Coal Company, Milt Mine.....	Kitzmilller	Joint
..	6—George Nethkin Coal Company, Milt Mine.....	Kitzmilller	Joint
..	8—Filer Coal Company, Fuel Mine.....	Midlothian	Powers
..	8—Ware-Jones & Cutter Coal Company, Barnes Mine..	Midlothian	Powers
..	8—McNitt Coal Company, No. 3 Big Vein Mine.....	Midlothian	Powers
..	9—Consolidated Fuel Company, No. 10 Mine.....	Eckhart	Powers
..	9—John Clites Coal Company, Elbow Mine.....	Barrellville	Powers
..	12—Earl Michaels Coal Company, Michaels Mine.....	Eckhart	Powers
..	12—Consolidated Fuel Co., Vale Summit Strip Mine.....	Frostburg	Powers
..	15—Consolidated Fuel Company, No. 1 Mine.....	Ocean	Powers
..	15—Haar Mining Company, No. 1 Mine.....	Piedmont, W. Va.	Rowe
..	22—George's Creek Coal Co., Inc., Waynesburg No. 5..	Lonaconing	Powers
..	23—George's Creek Coal Co., Inc., Waynesburg No. 5..	Lonaconing	Powers
..	24—George's Creek Coal Co., Inc., Waynesburg No. 5..	Lonaconing	Powers
..	26—George's Creek Coal Co., Inc., Waynesburg No. 5..	Lonaconing	Powers
..	29—George's Creek Coal Co., Inc., Office.....	Cumberland	Powers
..	30—Consolidated Fuel Company, No. 10 Mine.....	Eckhart	Powers
Dec.	1—Consolidated Fuel Company, No. 10 Mine.....	Eckhart	Powers
..	8—Mt. Savage Refs Corp., Tunnel Clay Mine.....	Mt. Savage	Powers
..	20—Big Vein Coal Co. of Lonaconing, Union No. 1 Mine	Zihlman	Powers
..	21—Big Vein Coal Co. of Lonaconing, Union No. 1 Mine	Zihlman	Powers
..	21—Bennett Coal Company, Bennett No. 1 Mine.....	Westernport	Rowe
..	22—Koontz Coal Company, Swanton, B. V.....	Frostburg	Rowe
..	27—A. P. Hoffa Coal Company, No. 4 Mine.....	Barton	Rowe
..	27—Filer Coal Company, Fuel Mine.....	Midlothian	Powers
..	29—Mt. Savage Refractories Corp., Tunnel Mine.....	Mt. Savage	Powers
..	30—Liberty Fuel Company, Trimb'e Mine.....	Mt. Savage	Powers
..	31—George Tharp Fuel Company, Charles Schriver Fuel Company and Louis Rank & Son Coal Company	Borden	Powers

TABLE OF MINE INSPECTIONS
GARRETT COUNTY
CALENDAR YEAR 1948

Date	Name of Company and Mine	Address	Inspector
Jan.	5—Allegheny Coal Corporation, No. 1 Mine.....	Jennings	Powers
..	8—Johnstown Coal & Coke Company, Manor No. 3.....	Vindex	Rowe
..	9—Beachy Coal Company, Beachy Mine.....	Grantsville	Powers
..	9—Clyde Bowman Coal Company, Shade Run Mine.....	Grantsville	Powers
..	13—Ajax Coal Company, Ajax No. 1.....	Westersport	Rowe
..	14—Leslie B. Sharpless, Rawlings Mine.....	Kitzmilller	Rowe
..	15—Johnstown Coal & Coke Company, Manor No. 3.....	Vindex	Rowe
..	15—Laurel Run Coal Company, Stanton No. 1.....	Near Jennings	Powers
..	16—Sisler Coal Company, Dodson No. 2.....	Mt. Lake Park	Rowe
..	20 & 30—Wolf Den Coal Corp., Wolf Den Mine.....	Shallmar	Rowe
..	22—Myers Coal Company, Louisa No. 2.....	Gormanian, W. Va.	Rowe
..	23—Wolf Den Coal Company.....	Shallmar	Rowe
..	28—Laurel Run Coal Company, Stanton No. 1.....	Near Jennings	Powers
..	30—Laurel Run Coal Company, Stanton No. 1.....	Near Jennings	Powers
Feb.	3—Davis Coal & Coke Company.....	Corkeeton, W. Va.	Rowe
..	10—Davis Coal & Coke Company, No. 42 Mine.....	Corkeeton, W. Va.	Rowe
..	10—Laurel Run Coal Company, Stanton No. 1.....	Jennings	Powers
..	17—Levi Broadwater, Broadwater.....	Nikep	Rowe
..	19—Garrett Coal Corporation, Earl No. 2.....	Kitzmilller	Rowe
..	20—Roscoe Lantz, Table Rock No. 2.....	Aurora	Rowe
..	20—Kelley & Moreland Coal Co., Shields Run No. 2.....	Oakland	Rowe
..	20—Atlas Excavating Company, No. 1 Mine.....	Pittston	Rowe
..	20—Del Signore Stanya Coal Company, Gilbert.....	Gormanian	Rowe
..	20—Laurel Run Coal Company, Stanton No. 1.....	Jennings	Powers
..	26—Pritts Brothers Coal Company, Pee Wee.....	Kitzmilller	Rowe
March	1—Blue Flame Coal Company, Backbone.....	Bayard, W. Va.	Rowe
..	1—Nay Arnold, Shields Run No. 1.....	Kittanning	Rowe
..	2—Laurel Run Coal Company, Stanton No. 1.....	Jennings	Powers
..	4—Laurel Strip Company, Manor 3-B.....	Vindex	Rowe
..	5—Dunlo Coal Company, Round Glade Mine.....	Oakland	Rowe
..	9—George N. Nethken Coal Company, Milt No. 1.....	Kitzmilller	Rowe
..	9—Bray Coal Company, No. 1 and No. 2 Mines.....	Kitzmilller	Rowe
..	10—McNitt Coal Company, Hamill No. 1.....	Frostburg	Rowe
..	11—McNitt Coal Company, Hamill No. 1.....	Frostburg	Rowe
..	15—Ralph Harvey, R. Harvey Mine.....	Swanton	Rowe
..	15—Leo & John Tichnell, No. 2.....	Swanton	Rowe
..	15—Leo & John Tichnell, No. 1.....	Swanton	Rowe
..	15—Jas. W. Fazenbacker, Roth Mine.....	Swanton	Rowe
..	16—Stanley Virts Coal Company, No. 2 Mine.....	Swanton	Rowe
..	17—Myers Coal Company, Louisa No. 3 Mine.....	Gormanian, W. Va.	Rowe
..	18—William Upperman, No. 1 Mine.....	Deer Park	Rowe
..	18—James Riggelman.....	Vindex	Rowe
..	18—W. H. Haenftling Coal Company, Mine No. 1.....	Accident	Rowe
..	22—C. V. Harveys.....	Deer Park	Rowe
..	22—Ed. Tasker Coal Company, Tasker Mine.....	Mt. Lake Park	Rowe
..	25—John Beitzel Coal Company, Fuel Mine.....	Bittinger	Powers
..	26—Grantsville Coal Company, Shaw Mine.....	Negro Mt.	Powers
April	12—Beachy Coal Company, Beachy Mine.....	Grantsville	Powers
..	15—Laurel Run Coal Company, Meadow Mt. Mine.....	New Germany	Powers
..	18—Laurel Run Coal Company, Stanton No. 1 Mine.....	Jennings	Powers
..	21—F. P. Gaither, Pecal Mine.....	Cumberland	Rowe
..	21—Harr Mining Company, Phoenix Mine.....	Piedmont, W. Va.	Rowe
..	21—Franklin Hills Mining Company, Hoffa Mine.....	Cumberland	Rowe
..	22—Edward S. Moran & Sons, James No. 2.....	Westersport	Rowe
..	22—Edward S. Moran & Sons, James No. 1.....	Westersport	Rowe
..	22—Miller & Davis, No. 1 Mine.....	Cumberland	Rowe
..	26—Duckworth Coal Company, Duckworth Mine.....	Swanton	Rowe
..	26—L. J. Botscheller, No. 2 Mine.....	Oakland	Rowe
..	29—Edward S. Moran & Sons, James No. 1.....	Westersport	Rowe
..	29—Edward S. Moran & Son, James No. 2.....	Westersport	Rowe
May	4—Davis Coal & Coke Company, No. 42 Mine.....	Coketon, W. Va.	Rowe
..	5—Garrett Refractories Corp., Strip Clay Mine.....	Negro Mt.	Rowe
..	5, 6, 10, 11—Johnstown Coal & Coke Company, Manor No. 3.....	Vindex	Rowe
..	6—Grantsville Coal Company, Shaw Mine.....	Negro Mt.	Powers

TABLE OF MINE INSPECTIONS
GARRETT COUNTY
CALENDAR YEAR 1948

Date	Name of Company and Mine	Address	Inspector
"	10—Dunlo Coal Company, Taylor Mine.....	Oakland	Rowe
"	13—Sisler Coal Company, No. 1 Mine.....	Mt. Lake Park	Rowe
"	13—Sisler Coal Company, Dodson No. 2.....	Mt. Lake Park	Rowe
"	14—Lee Coal Company & Mill Run George's Creek Coal Company—Ezra Michaels	Westernport	Rowe
"	20—L. B. Sharpless, Rawlings Mine.....	Westernport	Rowe
"	21—Ajax Coal Company, Ajax No. 1 Mine.....	Westernport	Rowe
"	25—M. & M. Coal Company, Laurel Run Mine.....	Oakland	Rowe
"	26—Garrett Coal Company, Earl No. 3 Mine.....	Kitzmilller	Rowe
"	26—Garrett Coal Corporation, Earl No. 2 Mine.....	Kitzmilller	Rowe
June	20—Laurel Run Coal Company, Stanton No. 1.....	Jennings	Powers
"	20—William Upperman & Son, No. 1 Mine.....	Deer Park	Rowe
"	21—Laurel Run Coal Company, Stanton No. 1 Mine.....	Jennings	Powers
"	21—F. P. Gaither, Pecal Mine.....	Moscow	Rowe
"	21—Franklin Hills Mining Company, Phoenix Mine.....	Cumberland	Rowe
"	22—Miller & Davis, Aarons Run Mine.....	Cumberland	Rowe
"	22—George's Creek Mining Co., Michaels No. 3 Mine.....	Westernport	Rowe
"	24—Dunlo Coal Company, Taylor Mine.....	Oakland	Rowe
"	28—Blue Flame Coal Company, Backbone Mine.....	Keyser, W.Va.	Rowe
"	28—Kelley-Moreland, Shields Run No. 2 Mine.....	Oakland	Rowe
"	28—Nay Arnold, Shields Run No. 1.....	Gormaniam, W.Va.	Rowe
"	28—Bowman Coal Company, Strip Mine.....	New Germany	Powers
"	29—Myers Coal Company, Luise Mine.....	Char'town, W.Va.	Rowe
July	1—Bowman Coal Company, Strip Mine.....	New Germany	Powers
"	6—Laurel Run Coal Co., Meadow Mt. Strip Mine.....	New Germany	Powers
"	6—Edward W. Moran & Sons, James No. 2.....	Westernport	Rowe
"	6—Edward Moran & Sons, James No. 1.....	Westernport	Rowe
"	12—Pritts Bros. Coal Company, Pee Wee Mine.....	Kitzmilller	Rowe
"	12—George N. Nethken Coal Co., Milt No. 1 Mine.....	Kitzmilller	Rowe
"	13—Laurel Run Coal Co., Stanton No. 1 Mine.....	Jennings	Rowe
"	15—Davis Coal & Coke Company, No. 42 Mine.....	Coketon, W. Va.	Rowe
"	16-19—Wolf Den Coal Corporation, Wolf Den Mine.....	Shallmar	Rowe
"	23—Garrett Refractories Corp., Strip Clay Mine.....	Negro Mt.	Powers
"	28—Alleghany Coal Corp., No. 1 Mine.....	Jennings	Powers
"	28—Stanley Virts, No. 2 Mine.....	Swanton	Rowe
"	28—Harveys Coal Co. (Charles) Harveys Mine.....	Swanton	Rowe
"	30—Bowman Coal Company, Jenkins Strip Mine.....	New Germany	Powers
Aug.	5—Bowman Coal Company, Jenkins Strip Mine.....	New Germany	Powers
"	11—McNitt Coal Company.....	Frostburg	Rowe
"	13—Laurel Run Coal Company, Meadow Mt. Mine.....	New Germany	Powers
Sept.	8—Beachy Coal Company, Beachy Mine.....	Grantsville	Powers
"	8—Clyde Bowman Coal Company, Shade Run Mine.....	Grantsville	Powers
"	13—Bowman Coal Company, Strip Mine.....	New Germany	Powers
"	15—Foutz Coal Company, Beitzel Mine.....	Bittinger	Powers
"	21—Davis Coal & Coke Company, No. 42 Mine.....	Coketon, W.Va.	Rowe
"	23—F. P. Gaither, Pecal Mine.....	Cumberland	Rowe
"	23—Koontz Coal Company, Swanton Mine.....	Frostburg	Rowe
"	28—Double 'B' Coal Company, Potomac Manor Mine.....	Kitzmilller	Rowe
Oct.	4—Garrett Refractories Corp., Strip Mine.....	Negro Mt.	Powers
"	12—Garrett Refractories Corp., Meadow Mt. Strip Mine.....	Jennings	Powers
" 19, 20, 21.	22—Johnstown Coal & Coke Co., Manor No. 3 Mine.....	Vindex	Rowe
"	28—George Sloan Coal Company, Old Mine.....	Deep Creek	Powers
"	29—Beachy Coal Company, Beachy Mine.....	Grantsville	Powers
Nov.	2—Grantsville Coal Company, Shaw Mine.....	Negro Mt.	Powers
"	3—Davis Coal & Coke Co., No. 42 Mine.....	Coketon, W.Va.	Rowe
"	10—Laurel Run Coal Company, Stanton No. 1 Mine.....	Jennings	Powers
"	15—Edward S. Moran & Sons, James No. 2 Mine.....	Westernport	Rowe
"	22-23—George's Creek Coal Co., Inc., No. 5 Waynesburg.....	Lonaconing	Powers
Dec.	17—Alleghany Coal Corporation, No. 1 Mine.....	Jennings	Powers
"	20—Ajax Coal Company, Ajax No. 1 Mine.....	Westernport	Rowe
"	22—Garrett Refractories Corp., Meadow Mt. Strip Mine.....	Jennings	Powers
"	23—Beachy Coal Company, Beachy Mine.....	Grantsville	Powers
"	28—Myers Coal Company, Louisa No. 3 Mine.....	Gormaniam, W.Va.	Rowe

TABLE OF MINE SCALE INSPECTIONS
ALLEGANY COUNTY
CALENDAR YEAR 1948

J. DeSales Maher, Inspector.

Date	Name of Company and Mine	Address
Jan.	2—Thomas Clark & Bro. Coal Company, Barton Mine.....	Frostburg
"	5—Mill Run Coal Company, Mill Run Mine.....	Westernport
"	6—Koontz Coal Company, Swanton Mine.....	Barton
"	7—Big Vein Coal Co. of Lonaconing, Union No. 1.....	Lonaconing
"	8—Big Savage Refractories, Incorporated, Soft Clay....	Frostburg
"	8—Big Savage Refractories, Incorporated, Hard Clay....	Frostburg
"	9—Consolidated Fuel Company, Mine No. 17.....	Frostburg
"	13—George's Creek Coal Company, Mine No. 2.....	Frostburg
"	13—George's Creek Coal Company, Mine No. 2.....	Frostburg
"	16—Big Vein Coal Company of Lonaconing.....	Lonaconing
"	19—Consolidated Fuel Company, Mine No. 1.....	Frostburg
"	20—Mutts Coal Company, Mutts Mine.....	Mt. Savage
"	26—George's Creek Coal Company, Mine No. 4.....	Lonaconing
"	27—Ajax Coal Company, Mill Run Mine.....	Westernport
"	28—McNitt Coal Company, Mine No. 3.....	Frostburg
Feb.	2—Campbell Coal Company, Mill Run Mine.....	Westernport
"	4—A. P. Hoffa Coal Company, Pekin Mine.....	Westernport
"	9—Campbell Coal Company, Hampshire Mine.....	Barton
"	10—Consolidated Fuel Company, Mine Nos. 4 and 10....	Frostburg
"	16—Ajax Coal Company, Mill Run Mine.....	Westernport
"	20—Big Vein Coal Co. of Lonaconing, Castle Mine.....	Lonaconing
"	23—George's Creek Coal Company, Mine No. 4.....	Lonaconing
"	25—Miners Big Vein Coal Company, Bivecoal Mine.....	Lonaconing
"	26—Mutts Coal Company, Mutts Mine.....	Mt. Savage
March	1—Ringler Coal Company, Carpenter Mine.....	Mt. Savage
"	5—Mill Run Coal Company, Mill Run Mine.....	Westernport
"	11—Koontz Coal Company, Swanton Mine.....	Barton
"	19—Big Savage Refractories, Inc., Soft Clay.....	Frostburg
"	19—Big Savage Refractories, Inc., Hard Clay.....	Frostburg
"	24—Thos. Clark & Bro. Coal Company, Barton Mine....	Barton
"	30—Big Savage Refractories, Incorporated, Clay Mine..	Frostburg
"	31—Metz Coal Company, Barton Mine.....	Barton
April	14—Campbell Coal Company, Hampshire Mine.....	Barton
"	16—McNitt Coal Company, Mine No. 2.....	Middlethian
"	19—Ayers Coal Company.....	Cumberland
"	19—M. W. Race.....	Frostburg
"	19—City of Cumberland.....	Cumberland
"	19—Howell Coal Company.....	Cumberland
"	19—Klavuhn Coal Yards.....	Cumberland
"	20—City Scales.....	Westernport
"	23—Ajax Coal Company, Mill Run Mine.....	Westernport
"	26—Consolidated Fuel Company, Mine No. 10.....	Frostburg
May	3—Thos. T. Clark & Bro. Coal Company, Barton.....	Barton
"	6—Big Vein Coal Company of Lonaconing, Castle Mine	Lonaconing
"	7—Mutts Coal Company, Mutts Mine.....	Mt. Savage
"	10—Ringler Coal Company, Carpenter Mine.....	Mt. Savage
"	12—Morrison Coal Company, Morrison Mine.....	Westernport
"	13—Campbell Coal Company, Hampshire Mine.....	Barton
"	18—McNitt Coal Company, Mine No. 3.....	Barton
"	25—Dale Morrison Coal Company, Morrison Mine.....	Moscow Hill
"	28—George's Creek Coal Company, Mine No. 4.....	Lonaconing
June	1—Ajax Coal Company, Barton Mine.....	Barton
"	2—Big Savage Refractories, Inc., Hard Clay.....	Frostburg
"	2—Big Savage Refractories, Inc., Soft Clay.....	Frostburg
"	4—Consolidated Fuel Company, Mine No. 10.....	Frostburg
"	4—Mutts Coal Company, Mutts Mine.....	Mt. Savage
"	7—Campbell Coal Company, Mill Run Mine.....	Mill Run
"	10—Bennett Coal Company, Mill Run Mine.....	Mill Run
"	11—Consolidated Fuel Company, Mine No. 17.....	Frostburg
"	18—Consolidated Fuel Company, Mine No. 1.....	Frostburg
"	29—Metz Coal Company, Barton Mine.....	Barton
July	8—Consolidated Fuel Company, Mine No. 17.....	Klondyke
"	9—Big Vein Coal Company, Union No. 1.....	Lonaconing
"	14—Consolidated Fuel Company, Mine No. 10.....	Frostburg

TABLE OF MINE SCALE INSPECTIONS
ALLEGANY COUNTY
CALENDAR YEAR 1948

J. DeSales Maher, Inspector.

Date	Name of Company and Mine	Address
..	16—Morrison Coal Company, Morrison Mine.....	Barton
..	20—George's Creek Coal Company, Mine No. 3.....	Lonaconing
..	23—Consolidated Fuel Company, Mine No. 1.....	Frostburg
..	27—Ringler Coal Company, Carpenter Mine.....	Mt. Savage
Aug.	4—Ajax Coal Company, Mill Run Mine.....	Mill Run
..	6—Campbell Coal Company, Hampshire Mine.....	Barton
..	13—Consolidated Fuel Company.....	Frostburg
..	26—Mutts Coal Company, Mutts Mine.....	Mt. Savage
Sept.	1—Koontz Coal Company, Swanton Mine.....	Barton
..	2—Big Savage Refractories, Inc., Soft Clay.....	Frostburg
..	2—Big Savage Refractories, Inc., Hard Clay.....	Frostburg
..	8—Consolidated Fuel Company, Mine No. 17.....	Klondyke
..	9—George's Creek Coal Company, Mine No. 3.....	Lonaconing
..	10—Ajax Coal Company, McDonald Mine.....	Barton
..	16—Ajax Coal Company, Mill Run Mine.....	Mill Run
..	19—Bennett Coal Company, Mill Run Mine.....	Mill Run
..	20—Big Vein Coal Co. of Lonaconing, Castle Mine.....	Lonaconing
..	20—Ringler Coal Company, Carpenter Mine.....	Mt. Savage
..	22—McNitt Coal Company, Mine No. 3.....	Midlothian
..	24—Thos. J. Clark & Bro. Coal Company, Barton Mine..	Barton
..	28—George's Creek Coal Co., Waynesburg Mine No. 5..	Lonaconing
..	28—Koontz Coal Company, Swanton Mine.....	Barton
..	28—Ajax Coal Company, McDonald Mine.....	Barton
..	28—George's Creek Coal Co., Waynesburg Truck Scale..	Lonaconing
..	28—Bother Run Coal Company, Bluebaugh Mine.....	Barton
Oct.	1—McNitt Coal Company, Mine No. 2.....	Shaft
..	8—Consolidated Fuel Company, Mine No. 1.....	Ocean
..	11—Mutts Coal Company, Mutts Mine.....	Mt. Savage
..	13—Bennett Coal Company, Mill Run Mine.....	Mill Run
..	14—Big Vein Coal Company of Lonaconing, Union No. 1	Zihlman
..	18—Ringler Coal Company, Carpenter Mine.....	Mt. Savage
..	25—Campbell Coal Company, Mill Run Mine.....	Mill Run
..	27—Consolidated Fuel Company, Mine No. 17.....	Klondyke
..	28—Consolidated Fuel Company, Mine No. 10.....	Frostburg
Nov.	1—Big Vein Coal Co. of Lonaconing, Castle Mine.....	Lonaconing
..	3—Big Savage Refractories, Inc., Hard Clay Mine.....	Frostburg
..	8—Thos. J. Clark & Bro. Coal Company, Barton Mine..	Barton
..	10—Mutts Coal Company, Mutts Mine.....	Mt. Savage
..	12—Ajax Coal Company, Barton Mine.....	Barton
..	22—Big Vein Coal Co. of Lonaconing, Union No. 1.....	Zihlman
Dec.	1—Miners Big Vein Coal Co., Bivecoal Mine.....	Lonaconing
..	3—Mill Run Coal Company, Mill Run Mine.....	Mill Run
..	7—Consolidated Fuel Company, Mine No. 10.....	Frostburg
..	10—Campbell Coal Company, Hampshire Mine.....	Barton
..	15—Campbell Coal Company, Mill Run Mine.....	Mill Run
..	16—McNitt Coal Company, Mine No. 3.....	Midlothian
..	17—Mutts Coal Company, Mutts Mine.....	Mt. Savage
..	21—Big Vein Coal Co. of Lonaconing, Castle Mine.....	Lonaconing
..	23—Consolidated Fuel Company, Mine No. 1.....	Frostburg
..	29—Consolidated Fuel Company, Mine No. 17.....	Frostburg
..	30—Big Savage Refractories, Inc., Clay Mines.....	Zihlman

TABLE OF MINE SCALE INSPECTIONS
GARRETT COUNTY
CALENDAR YEAR 1948

J. DeSales Maher, Inspector.

Date	Name of Company and Mine	Address
Jan.	21—Alleghany Coal Corporation.....	Jennings
..	22—Wolf Den Coal Company, Shallmar Mine.....	Shallmar
..	23—Meyer Coal Company, Luise No. 1.....	Gorman
..	14—McNitt Coal Company, Hamill Mine.....	Kitzmiller
..	15—Manse & Manse Coal Company, Laurel Run Mine.....	Oakland
Feb.	5—Davis Coal & Coke Company, Mine No. 42.....	Kempton, W. Va.
..	6—Garrett Coal Corp., Mine No. 2.....	Kitzmiller
..	11—Grantsville Coal Company, Sloan Mine.....	Grantsville
..	12—Manse & Manse Coal Company.....	Oakland
..	13—Johnstown Coal & Coke, Mine No. 3.....	Vindex
..	17—L. B. Sharpless Coal Company, Rawlings Mine.....	Kitzmiller
..	18—Myers Coal Company, Luise No. 1.....	Gorman
..	19—Alleghany Coal Corp., Mine No. 1.....	Jennings
..	24—Wolf Den Coal Company, Shallmar Mine.....	Shallmar
..	27—McNitt Coal Company, Hamill Mine.....	Kitzmiller
March	3—Johnstown Coal & Coke Company, Mine No. 3.....	Vindex
..	8—Davis Coal & Coke Company, Mine No. 4.....	Vindex
..	17—Charles Pattison Coal Company, Bloomington.....	Bloomington
..	22—Grantsville Coal Company, Sloan Mine.....	Grantsville
..	23—Myers Coal Company, Luise No. 1.....	Gorman
April	5—Wolf Den Coal Company, Shallmar Mine.....	Shallmar
..	15—Charles Pattison Coal Company, Bloomington.....	Bloomington
..	19—Garrett Coal Corp., Mine No. 1.....	Jennings
..	20—Mt. Lake Canning Company.....	Mt. Lake Park
..	20—City Scales.....	Oakland
..	20—Pritts Bros. Coal Company.....	Kitzmiller
..	20—Alleghany Coal Corp., Mine No. 1.....	Jennings
..	21—Pritts Bros. Coal Company, Pee Wee Mine.....	Kitzmiller
..	22—Davis Coal & Coke Company, Mine No. 2.....	Kempton
..	27—Johnstown Coal & Coke Company, Mine No. 3.....	Vindex
May	11—Myer Coal Company, Mine No. 2.....	Gorman
..	14—L. B. Sharpless Coal Company, Rawlings Mine.....	Kitzmiller
..	20—McNitt Coal Company, Hamill Mine.....	Kitzmiller
..	21—Alleghany Coal Corporation, Mine No. 1.....	Jennings
..	24—Grantsville Coal Company, Sloan Mine.....	Grantsville
..	26—Virts Coal Company, Freeport Mine.....	Swanton
..	27—Davis Coal & Coke Company.....	Kempton
June	3—George Nethken Coal Company, Freeport Mine.....	Kitzmiller
..	5—Wolf Den Coal Company, Shallmar Mine.....	Shallmar
..	8—Johnstown Coal & Coke Company, Mine No. 3.....	Vindex
..	10—Myers Coal Company, Mine No. 2.....	Gorman
..	14—Garrett Coal Corp., Earl Mine No. 2.....	Kitzmiller
..	16—Alleghany Coal Corp., Mine No. 1.....	Jennings
..	21—Davis Coal & Coke Company, Mine No. 42.....	Kempton, W. Va.
..	22—McNitt Coal Company, Hamill Mine.....	Kitzmiller
..	24—Grantsville Coal Company, Sloan Mine.....	Grantsville
..	25—L. B. Sharpless Coal Company, Rawlings Mine.....	Kitzmiller
..	28—Virts Coal Company, Freeport Mine.....	Swanton
July	6—Johnstown Coal Company, Mine No. 3.....	Vindex
..	15—Garrett Coal Company, Earl Mine No. 2.....	Kitzmiller
..	23—McNitt Coal Company, Hamill Mine.....	Kitzmiller
..	28—Davis Coal & Coke Company, Mine No. 42.....	Kempton
..	29—Grantsville Coal Company, Sloan Mine.....	Grantsville
..	30—Chas. Pattison Coal Company, Bloomington Mine.....	Bloomington
Aug.	3—L. B. Sharpless Coal Company, Rawlings Mine.....	Kitzmiller
..	9—Pritts Bros. Coal Corp., Pee Wee Mine.....	Kitzmiller
..	10—Garrett Coal Corp., Earl Mine No. 2.....	Kitzmiller
..	11—Johnstown Coal & Coke Company, Mine No. 3.....	Vindex
..	12—Manse & Manse Coal Company, Mine No. 1.....	Laurel Run
..	13—Manse & Manse Coal Company, Mine No. 1.....	Laurel Run
..	16—Wolf Den Coal Company, Shallmar Mine.....	Shallmar
..	17—Alleghany Coal Corporation, Mine No. 1.....	Jennings
..	24—28—Johnstown Coal & Coke Company, Mine No. 3.....	Vindex
..	25—McNitt Coal Company, Hamill Mine.....	Kitzmiller

TABLE OF MINE SCALE INSPECTIONS
GARRETT COUNTY
CALENDAR YEAR 1948

J. DeSales Maher, Inspector.

Date	Name of Company and Mine	Address
..	26—Davis Coal & Coke Company, Mine No. 3.....	Vindex
..	30—Myers Coal Company, Mine No. 3.....	Kempton
..	30—Chas. Pattison Coal Company, Bloomington Mine...	Bloomington
Sept.	3—Beachy Coal Company, Beachy Mine.....	Grantsville
..	7—Garrett Coal Corp., Earl Mine No. 2.....	Kitzmiller
..	15—Grantsville Coal Company, Sloan Mine.....	Grantsville
..	17—Allegany Coal Corp., Mine No. 1.....	Jennings
..	21—McNitt Coal Company, Hamill Mine No. 1.....	Kitzmiller
..	27—Johnstown Coal & Coke Company, Mine No. 3.....	Vindex
..	27—Garrett Coal Corp., Earl Mine No. 2.....	Kitzmiller
..	30—Davis Coal & Coke Company, Mine No. 42.....	Kempton
..	30—Myers Coal Company, Mine No. 3.....	Gorman
Oct.	4—Myers Coal Company, Mine No. 3.....	Gorman
..	5—George's Creek Coal Company, Mine No. 1.....	Louaconing
..	5—George's Creek Coal Company, Mine No. 2.....	Louaconing
..	7—Wolf Den Coal Company, Shallmar Mine.....	Shallmar
..	26—Garrett Coal Corp., Earl Mine No. 2.....	Kitzmiller
..	29—Davis Coal & Coke Company, Mine No. 42.....	Kempton
..	2—McNitt Coal Company, Hamill Mine.....	Kitzmiller
..	15—Manse & Manse Coal Company, Laurel Run Mine...	Laurel Run
..	19—Johnstown Coal & Coke Company, Mine No. 3.....	Vindex
..	21—Allegany Coal Company, Mine No. 1.....	Jennings
..	22—Grantsville Coal Company, Sloan Mine.....	Grantsville
Nov.	4—Myers Coal Company, Mine No. 3.....	Gorman
..	5—Manse & Manse Coal Company, Laurel Run Mine...	Laurel Run
..	9—Johnstown Coal & Coke Company, Mine No. 3.....	Vindex
..	15—Wolf Den Coal Company, Shallmar Mine.....	Shallmar
..	15—Grantsville Coal Company, Sloan Mine.....	Grantsville
..	18—Pritts Bros. Coal Company, Pee Wee Mine.....	Kitzmiller
..	23—Garrett Coal Corp., Earl Mine No. 2.....	Kitzmiller
..	24—Allegany Coal Corp., Mine No. 1.....	Jennings
..	26—McNitt Coal Company, Hamill Mine.....	Kitzmiller
..	29—Davis Coal & Coke Company, Mine No. 42.....	Kempton
..	29—L. B. Sharpless Coal Company, Rawlings Mine.....	Kitzmiller
Dec.	2—Chas. Pattison Coal Company, Bloomington Mine...	Bloomington
..	6—Myers Coal Company, Mine No. 3.....	Gorman
..	8—Johnstown Coal & Coke, Mine No. 3.....	Vindex
..	9—Manse & Manse Coal Company, Laurel Run Mine...	Laurel Run
..	20—Allegany Coal Corp., Mine No. 1.....	Jennings
..	22—Wolf Den Coal Company, Shallmar Mine.....	Shallmar
..	27—McNitt Coal Company, Hamill Mine.....	Kitzmiller
..	28—Davis Coal & Coke Company, Mine No. 42.....	Kempton
..	31—Garrett Coal Corp., Mine No. 2.....	Kitzmiller
..	13—Pritts Bros. Coal Company, Pee Wee Mine.....	Kitzmiller
..	14—J. A. Beachy Coal Company, Grantsville Mine.....	Grantsville

FATALITIES—1948

In 1948 there were two disasters causing the death of eight (8) men. Following is a report on the first disaster by Frank T. Powers, District Mine Inspector, Frostburg, Allegany County, in whose district the disaster occurred.

On August 14, 1948, at approximately 9:30 A. M., an explosion occurred in the Waynesburg No. 5 Mine of the Georges Creek Coal Co., Inc., located near the town of Lonaconing, Allegany County, Maryland.

The mine was not being operated at the time; however, three mine officials, two assistant foremen and one mine examiner, entered the mine for the purpose of applying rockdust to the mine surfaces. These three men were the only ones in the mine and all were killed.

The cause of the explosion was an accumulation of Methane in No. 2 Room off 3rd Left Entry, and the evidence indicates it was ignited by an electric arc from a locomotive. However, a package of cigarets, with one missing, was found in the place, also a single unlit cigaret of the same brand. Therefore, smoking cannot be eliminated as a possible source of ignition since cigarets were found in the place.

The explosion was localized and confined to the "new section" of the mine. Rockdust had been applied to dry surfaces in this section which probably helped localize the explosion.

A total of 117 men were employed in and around the mine and 104 worked underground on three shifts. About 15 men usually worked on the day shift in the new section. The daily production of coal was about 500 tons.

The mine openings consisted of six drifts in the Waynesburg coal bed. The first opening was made in the year 1911 and was called No. 1 Mine. No. 3 was opened in 1932 and No. 5 was opened in 1945. The seam was about 52 inches in thickness, and numerous faults and clay veins were encountered. The coal bed is relatively flat with a general rise to the Northwest, and lies about 110 feet above the Sewickley coal bed on the westerly side of the Georges Creek Basin at the top of the mountain.

The mine was classed as non-gaseous by the Maryland Bureau of Mines, no gas having been detected, with flame safety lamp, prior to the explosion. It was worked by the room and pillar method, entries

were driven in pairs. Due to the numerous faults and clay veins encountered, rooms and cross-cuts were turned at irregular intervals.

The accident record at this mine had been very good until 1947 when they had the first fatal accident and had mined 1,524,752 tons of coal. Most of the coal was undercut with machines and loaded by hand into mine cars.

Air circulation in the mine was induced by a 6-foot propeller-type fan and was installed in an incombustible structure on the surface offset from the mine opening. It was operated 24-hours a day, but was not operating when the explosion occurred. The new section of No. 5 Mine was cut through to the Main North in the old mine. The new section was the intake side of the continuous air current.

A certified mine examiner regularly made examinations of the mine within four hours before the day shift entered the mine. All underground officials carried Flame Safety Lamps on regular duty in the mine. A permissible Flame Safety Lamp was found in the affected area following the explosion. When this lamp was examined, all parts appeared in good condition and properly assembled.

Although the mine was generally wet, there were some dry areas which had been rock-dusted. The practice at this mine was to maintain the rock dust application to within 80 feet of the faces in the dry areas.

Coke tests were made from the dust samples collected by the Federal Mine Inspector who made the investigation for the U. S. Bureau of Mines, and showed coke at the junction of No. 3 Left and the Main Haulageway.

Portable electrical cap lamps were used for illumination underground, and permissible Flame Safety Lamps were provided for officials to make tests for Methane. The Company's rules forbid smoking underground, but cigarets which were observed in the mine indicated that smoking may have been practiced underground.

The underground electrical equipment consisted of 3 locomotives, 2 shortwall mining machines, a rockdusting machine and one pump, all of the non-permissible type. Electric power was conducted into the mine as 250 volts direct current. Mine men at the mine were qualified to wear respiratory apparatus at mine fires and explosions. The last training they had received was in August, 1947. The three victims also received training at that time.

The weather was clear and no marked change in weather conditions was observed prior to the explosion. The last shift left the section affected by the explosion at 3:00 P. M., August 13, 1948. The No. 2 Room off the No. 3 Left entries where the explosion occurred, had not been operated since July 21, 1948, and the two places turned off No. 2 Room had also been idle since that time. The Mine Foreman and a mechanic had stopped the fan for an estimated ten minutes before the explosion occurred. The last report of the mine examiner covered the period within the four hours prior to the day shift which started at 7:00 A. M., August 13, 1948.

The Story of the Explosion and Recovery Operations

As previously stated, the mine was not operating when the explosion occurred, and the officials (two assistant foremen and the mine examiner) entered the mine about 9:00 A. M., Saturday, August 14, 1948, for the purpose of rock-dusting the mine surfaces. The regular procedure was to start at the faces and work toward the outside.

At approximately 9:20 A. M., the mine foreman and a mechanic stopped the fan to make measurements for a drive-belt guard and it was not running when the explosion occurred. The pressure-relief door was not disturbed by the explosion. It was constructed of metal $1/16$ of an inch thick and held in place by $1/4$ -inch soft copper rivets. Men working about 300 feet from the drift opening heard the unusual noise and went to investigate.

The mine foreman started the fan immediately after the explosion, and he and three other men entered the intake airway and began to replace the stoppings. Starting at No. 5 crosscut, they replaced a total of six stoppings between the main intake air-course and the haulway. This work was done with respiratory equipment, and these men located the body of Bernard Smith on No. 3 Left haulageway. This body was found 15 feet in by Station No. 73 as marked on the map. These same men located the body of George Loar, 247 feet out by from the face of No. 2 Room off No. 3 Left. Foul air and the lack of respiratory equipment prevented them from continuing the search for the body of Robert Dodds. Additional help arrived and men wearing Universal gas masks erected four additional temporary stoppings in No. 3 Left and about 150-feet of line brattice in No. 2 Room, also they recovered Robert Dodds' body approximately 145 feet out by from the face of No. 2 Room off No. 3 Left.

The bodies of Bernard Smith and George Loar were found downward, apparently in a crawling position and both men had dust res-

pirators in place when found. The last body was recovered about 1:40 P. M., August 14, 1948, and all work stopped at that time.

Investigation of Cause of Explosion

On Sunday, August 15, 1948, at 7:00 o'clock A. M., investigation was started as to the cause of the explosion. W. Dan. Walker, Jr., Engineer-in-Charge, and W. D. Baldwin and Thomas J. McDonald represented the United States Bureau of Mines; Frank T. Powers represented the Maryland Bureau of Mines, and Russell Keister, the Mine Foreman, represented the Coal Company. We were joined in the investigation on Monday, August 15, 1948, by Clyde J. Rowe of the Maryland Bureau of Mines, a member of the Mine Safety Committee and a member of the Mine Committee, and they witnessed the detection of Methane with a permissible Flame Safety Lamp in No. 2 Room before the investigation was completed.

Frank T. Powers and Clyde J. Rowe, District Mine Inspectors, conducted a hearing on the explosion, for the Maryland Bureau of Mines, on Tuesday, August 17, 1948, at 7:30 P. M., in the City Hall, Frostburg. The United States Bureau of Mines was represented at this hearing by W. D. Walker, Jr., W. D. Baldwin and T. J. McDonald.

The force of the explosion knocked out six wooden stoppings, two cement block stoppings (which had not been cemented in place) and two wooden doors on 1st and 2nd Right entries. There were also two wooden doors on the haulageway which were damaged by the force of the explosion. The total damage to the mine consisted of six wooden stoppings of four doors to cement block stoppings, all in the "new section" of the mine. Part of the mine resumed operations on August 24, 1948.

The area of force extended from the face of No. 2 Room off No. 3 Left to the Drift Openings, a distance of 2220 feet. The direction of force was outward on the haulageway toward airway through the crosscuts. The heat and flame extended from the face of No. 2 Room off No. 3 Left to the junction of No. 3 Left and the main haulageway, a distance of 595 feet. The three men who were killed by the explosion were all within the heat and flame area and the victims were all badly burned. The evidence of flame and heat in the previously mentioned area was in the form of charred papers, timbers and coked coal. The paper bags containing rockdust in the mine car in front of the locomotive were badly burned. It was the opinion of the in-

investigators that the prime factors in preventing the spread of the explosion was the application of rockdust on the mine surfaces. There were numerous openings and water on the floor of the haulage-way that may have been a contributing factor in preventing the spread of the explosion.

When the mine was in normal operation, fifteen men worked in the area affected by the explosion. The three men who were killed by the explosion had entered the mine about 9:00 A. M., August 14, 1948, for the purpose of extending the rockdust application. The trip on which they rode into the mine consisted of a rockdusting machine and a mine car which was loaded with paper bags containing rockdust, and these were being pushed by a combination trolley and cable-reel locomotive.

The trip was found in No. 2 Room after the explosion. The locomotive was 95-feet from the face of No. 2 Room and the inby end of the rockdusting machine was 73-feet from the face. None of the rockdust had been used, and the controller on the rockdusting machine was in the "off" position. The locomotive controller was on the third power position. The direction lever was in the forward position. The trailing cable was attached to the trolley wire. The transfer switch was in the position it normally would be when the locomotive was receiving its power through the cable, and the locomotive brake was in the "off" position. These conditions make it rather obvious that there was power on the locomotive when the explosion occurred and that it was traveling towards the face of No. 2 Room, which had been driven 269 feet without a crosscut, and two other places had been turned off No. 2 Room. When the locomotive was found, 22 feet of trailing cable was coiled up underneath, indicating that the locomotive had advanced 22 feet beyond the point where it was found and had drifted backward.

Mr. Dodds' body was found on the right side of the No. 2 Room and the gob was filled about two feet high with rock. His head was near the rib. According to the Medical Examiner, the victims had no broken bones. It was the opinion of the representatives of the Maryland Bureau of Mines and the United States Bureau of Mines that Methane had accumulated in No. 2 Room off 3rd Left, and that this gas was ignited by the open-type locomotive; however, smoking or lighting a match to smoke cannot be entirely ruled out of the evidence.

It has been proven that Methane will accumulate in so-called non-gaseous mines, especially when driven ahead of the ventilation cur-

rent as this No. 2 Room was driven, and left standing from July 21st to August 14th, 1948, in a badly faulted area. This place should not have been driven beyond the legal limit and brattice cloth should be maintained at all times to conduct air to the working places.

The three men who were killed knew of this violation and they should not have entered the place until an inspection for gas had been made. No coal should have been mined until a crosscut had been cut from the face of No. 3 Left entry and this entry was cutting through a thick fault. These men were charged with the safe operation of the mine and were certified mine officials.

The Maryland Bureau of Mines wishes to thank the Federal Mine Inspectors, Mr. W. D. Walker, Jr., Engineer-in-Charge, W. D. Baldwin and T. J. McDonald, for their assistance in conducting the investigation.

The following is a report of the second disaster prepared by J. J. Rutledge, Chief Mine Engineer, Maryland Bureau of Mines:

A very serious fatal disaster involving the death of four miners and one driver occurred about 10:30 A. M., November 4, 1948, in Milt No. 1 Mine, George M. Nethken Coal Company, about two miles from Kitzmiller, Garrett County, Maryland.

On Thursday, November 4, 1948, at approximately 11:00 A. M., L. C. Hutson, Vocational Mining Instructor, Bureau of Mines, and Chief Mine Engineer J. J. Rutledge were in Mr. Hutson's automobile, just ready to start on a trip to Kempton, Md., where No. 42 Mine of The Davis Coal and Coke Company is located. Suddenly the siren on the Volunteer Fire Department station at Kitzmiller sounded and the volunteer firemen from among the citizens of Kitzmiller began to run to their station. Someone said that the fan-house at George Nethken's mine was on fire, and when Mr. Hutson heard this, he said that he would get two of the All-Service gas masks, which are part of a set of five, and which together with one oxygen inhalator, are always kept in Mr. Hutson's office at Kitzmiller. That is, there is a total of 5 gas masks besides the inhalator at this office, ready for use at any time. After Mr. Hutson delivered the All-Service gas masks to the firemen, Mr. Hutson and Mr. Rutledge started to drive toward the foot of the mountain, the fire department truck preceding, with the volunteer fire fighters. Arriving at the foot of the mountain, it was decided to go immediately to the mine, which they did. Arriving at the Wilson house enroute to the mine, the two Bureau men met Mr. George Nethken, who was in his automobile traveling

towards Kitzmiller. As the road was narrow, Mr. Hutson backed his car into the entrance to the Wilson farm and permitted Mr. Nethken to proceed along the road toward Kitzmiller in his automobile.

When Mr. Hutson and Mr. Rutledge reached the mine they took the lower road and had to climb up the embankment to the level of the mouth of the mine. They found the firemen of the Fire Department squirting water on the fire, which was burning in the fan-house, at the mouth of the main air-course of the mine. The drainage of the mine passes through this opening and beneath the fan-house and there was a considerable stream of water flowing through this ditch. The firemen had buckets on the fire truck and filled them from the stream of water, which was flowing out of the mouth of the mine and threw the water on the flames. After a short time the flames were extinguished. It was noted that the fan blades were practically destroyed, and that the mouth of the mine was timbered with square timbers, about 10 x 10 inches in cross-section. These were second-hand timbers which had been purchased from the Baltimore and Ohio Railroad Company, evidently from a bridge structure. They had been pressure-creosoted before being used by the Railroad, but they had been long enough from the preserving plant to be free from any external creosote. The fire burned over these timbers but did not entirely consume all of them.

Mr. Rutledge went into the mouth of the mine and found that there was hot steam coming out, which was due to the water cast on the fire by the firemen. The eyes were irritated by some gases in the steam.

First, George Nethken and Hollis Wilson, who was not an underground man, entered the mine but were only able to penetrate about 30-ft. Immediately a crew of three men, Wilbur Burrell, George Nethken and Paul Keller, were got together and they proceeded into the mine equipped with All-Service gas masks. They were only gone a very short time when they reported that they had found the bodies of the driver, Robert Jackson, and four miners. In the meantime the ambulance from Kitzmiller, driven by Ortha Sharpless, the undertaker, accompanied by his daughter, Miss Mildred Sharpless a Registered Nurse, had arrived, and stretchers were taken from the ambulance and a third crew composed of Wilbur Burrell, Robert Burrell, Mervin Simms, wearing gas masks, and Fitzhugh Burrell, George Wilt and Paul Keller and M. E. Pritts, without masks, entered the mine and brought out the five men, four in a mine car and one on a stretcher. About this time the local physician at Kitzmiller, Dr. Ralph Calandrella, arrived on the scene.

Some canvas was placed on the ground, and the men, all of whom were apparently lifeless, were placed on the canvas and immediately artificial respiration by the Schaefer method was given. The firemen had an oxygen apparatus for resuscitating victims of suffocation, and they used that device on one of the victims, meantime giving the Schaefer method of resuscitation to the victims. The inhalator from Mr. Hutson's office was used from time to time on each of the five victims. Later an inhalator from the Oakland Fire Department was brought and this was also put in service.

Probably most of the men who were attempting to resuscitate the victims had been given training by Mr. F. D. Baker, First-aid Instructor of the Bureau of Mines, Department of the Interior, about two years ago, when Mr. Baker was working out of the Fairmount, W. Va., office of the Federal Bureau of Mines. Miss Sharpless, the Nurse, reported that she had some adrenaline in her nurse's kit, and Dr. Calandrella administered a dose of adrenaline to each of the five victims. A short time later he gave a second injection to each of the victims, but there was no response.

While some of the men were administering the Schaefer Method, other trained First-aid men were trying to stimulate the circulation in the legs of the victims of the disaster. Nearly all of those present worked on this attempted resuscitation. Later Dr. Lusby from Oakland arrived and rendered assistance.

After working approximately 2 1/2 hours, Drs. Calandrella and Lusby each independently examined the victims and pronounced them dead. The bodies were then taken in the ambulance to Mr. Sharpless's undertaking establishment in Kitzmiller.

An examination of what was left of the fan and its equipment indicated that a Ford automobile engine, operated by gasoline, had been the motive power for the fan, the gasoline tank being situated directly over the motor. In some manner the supply pipe from the tank to the motor must have broken, and this could have been the direct cause of the disaster.

The only man outside the mine at the time the fire broke out was Charles Frederick Burrell. According to all the evidence this fire started between 10:15 and 10:30 A. M. There was a small hand fire extinguisher in a shed, near the mouth of the mine, and this was used by Mr. Burrell on the fire, but had little effect. The fire truck which arrived later soon extinguished the fire.

The fan was blowing and could not be readily reversed. All the smoke from the fire, and the vapors from the burning gasoline, entered the mouth of the air-course. This mixed steam and smoke and vapor returned very soon after entering the mine and passing through a crosscut and thence came out and returned to the mouth of the mine. Mr. George Nethken instructed the manager of Pee Wee Mine, into which this mine opened, and asked him to speed up the fan at that mine, and send all possible air from that mine in the direction of the Nethken mine. This was done.

The water generated steam when the heat of the fire met it and there was a strong current at the mouth of the mine. As stated, when the fire started there was one man outside dumping rock, Charles Frederick Burrell, and there were two drivers, Robert Jackson and Paul Keller, and four miners Herman Keller, Clarence Keller, Martin Keller and Charles Franklin Keifer, at work in the mine. Mr. George Nethken was inside the mine at a point probably 300 or 400 feet from the mouth of the mine, when he encountered Jackson, who told him the fan house was on fire, and Jackson said he was going in to get his loaders, the three Keller brothers and Charles Keifer. Mr. Nethken proceeded to the mouth of the mine and had considerable difficulty walking on account of the presence of the steam. He did eventually reach the mouth of the mine and at once went to get assistance in fighting the fire.

This mine, known as Milt No. 1, is a small mine not connected with a railroad. It was opened in 1945 and supplied truck trade and some of its coal was hauled to railroad cars. Approximately 35 net tons of coal were produced each day.

At about 250-ft. from the main mouth of the mine there is a hill and mine cars could coast down this hill to the mouth of the mine without being pulled by the animals. There were two ponies in the mine; one was found dead about 338 feet from the mouth of the mine. If the victims had been able to get to the top of the incline, in the empty pit car, they could have coasted to the mouth of the mine. They had brattice-cloth with them in the mine, and since the face was about 1000-ft. from the mouth of the mine, they could have bratticed themselves in, since the current from the fan short-circuited a comparatively short distance from the mouth of the mine. They might also have reached safety in the workings of the Pee Wee Mine. Apparently the noxious gases and steam were only active to a distance, probably 300-ft., from the mouth of the mine.

The blood of the victims all showed traces of Carbon Monoxide and undoubtedly death was due to the inhalation of this gas. This gas in any quantity requires only several minutes to overcome the person who inhales it, and exposure of five minutes to this gas in any quantity is usually fatal.

Although faithful work was done by the miners and other citizens in fighting the fire and in attempting to resuscitate the men, no response whatever was noticeable. The Kitzmiller Fire Department deserves a great deal of credit for the rapid response to the request for help and for the effective use of their equipment at the fire. The firemen also assisted materially in administering oxygen to the victims, and in rendering artificial respiration.

Mr. Charles Frederick Burrell, who was the only person outside the mine at the time this fire started, stated that one of the drivers had brought out a car of coal and a car of rock, and that he, Mr. Burrell, had dumped the car of coal, screened it, then walked up the track and dumped the rock down the rock dump. He hooked the chain-hoist to the rock car and pulled it up; the car had not emptied and he went around and picked up the shovel and started to clean out the car. The fan stopped running while he was there and he moved around to where he could see the fan. He noticed the fire blazing on top of the gasoline engine. He then ran up to the shop and got a glass bomb fire extinguisher, which was up there, and threw it on the fire, but it did very little towards extinguishing the fire. Mr. Burrell stated that this occurred after 10:00 o'clock, perhaps 10:30 or 10:45 o'clock. He had filled the gasoline tank in the morning, about 7:00 o'clock. He stated it was the practice to let the tank run dry, which usually happened sometime between 11:00 and 12:00 o'clock, and then to re-fill it. Just after Mr. Burrell had used the fire extinguisher on the fire both drivers came out, Robert Jackson and Paul Keller, and they ran and threw shovels of wet slack coal on the fire to try to smother it. Both drivers said they were going back in to try to get the men. Mr. Burrell wanted them to stay and help him to extinguish the fire but Jackson said he was going in to get his men.

Mr. Jackson went into the mine with his pony while Paul Keller stayed with Mr. Burrell. Both Keller and Burrell carried water and tried to keep the fan building from catching fire. Jackson took his pony and an empty car and went into the mine. Burrell did not notice any smoke coming out of the pit mouth when Jackson started in by the mine.

Mr. George Nethken came out of the mine soon after Jackson went in. As to the origin of the fire, Mr. Burrell thought that the pipe that came from the gas tank to the motor must have come loose, or something happened to it as this tank was right over the spark plugs. Mr. Burrell further stated that he had heard the fan stop while he was dumping the rock car, and to the best of his knowledge the fan was not running while the fire was burning.

Mr. Jackson started back into the mine only about a minute or two after Mr. Burrell noticed the fire. Mr. Burrell stated that they had never had any trouble with this gasoline engine before this fire.

Mr. Paul Keller, driver, said that when he came out of the mine with a loaded car, the fan motor was on fire and he grabbed a shovel and shoveled wet dirt and coal on the fire to try to smother it. The other driver, Jackson, came out immediately behind him with a load. Jackson came over and when he saw the fire he took his pony and an empty mine car and went back into the mine for the men. This action did not take much over a minute. Keller said that he and Burrell were trying to smother the fire, and three or four minutes later, after he had come out of the mine, the gasoline tank on the motor exploded. Just then Mr. George Nethken came out of the mine. When Mr. Nethken saw the fire he left for help.

Mr. Keller went around the hill to the right of the main opening and opened up a hole that came to the surface. When Keller returned from doing this he tried to get in the main mine opening but the smoke and fumes were so bad in the pit mouth he could not get in and he waited until help came. When help arrived he, Wilbur Burrell and George Nethken put on gas masks and went in. The men were down when the rescue party found them. Some of them were lying with their faces in the dirt when found. This party went out to get a car so they could bring the unconscious men out of the mine. When Paul Keller came out his gas mask was smokey and he gave it to some other person. After the second party had taken the car up, Mr. Keller followed without a gas mask, and they were putting the men in the empty car when he got there.

Mr. Keller further stated that there was no smoke coming out of the mine when Jackson went in but there was smoke coming out of the opening when he, Keller, went around the hill to open the hole, and there was some air, not much, coming out of the hole. Mr. Keller stated that when they found the men they did not notice any signs of life. This was near 11:00 o'clock. The men were brought out before 12:00 o'clock.

Mr. Wilbur Burrell, Mine Foreman for Pritts Bros. Pee Wee Mine, Kitzmiller, stated that word came to him inside the mine by one of

the Pritts Bros. employees, and he left and went to the Nethken mine. When he arrived at the Nethken mine he put on a gas mask immediately and entered the mine with Mr. George Nethken and Paul Keller. They located the bodies of the men not very far from the pit mouth. The men were lying face down close together—two, two and one. Mr. Burrell's party lifted the men, freed their faces from the mud and set them up. They then went outside and two men, Robert Burrell and Mervin Simms, took an empty car and started back into the mine. Fitzhugh Burrell went into the mine without a mask. Four of the bodies were loaded into the empty mine car and one was put on a stretcher. The bodies were then brought outside the mine. Artificial respiration was started immediately and continued until the doctors pronounced the men dead, two and a half hours later. Mr. Wilbur Burrell stated there were no signs of life when they first found the men.

Mr. Wilbur Burrell stated that timbers at the fire were still smoking but there was no blaze when he arrived at the mine and that when he first went into the mine the atmosphere was smokey and that he had to use a flashlight in order to see his way. On the second trip this smoke had cleared. He stated that the fan at the Pee Wee mine had been opened up to help blow the smoke out of the Nethken mine. Mr. Burrell knew that the mines were connected in the ventilation, and that an increase in the air current in the Pee Wee mine would affect the Nethken mine.

Mr. Fitzhugh Burrell, night foreman at No. 3 Mine, Johnstown Coal and Coke Company, Vindex, said that he was in the drug-store at Kitzmiller, when the fire whistle blew and that he went out and George Nethken called to him and said, "My fan house is on fire and the men are in the mine. Will you see if you can get some gas masks and something to help us?" Mr. Burrell started to Mr. Hutson's house and met Mr. Hutson and Dr. Rutledge in front of Pritts Garage. Mr. Hutson got the gas masks and Robert Nethken put them in his car and drove to the mine. The masks were put on and Fitzhugh Burrell said it was so hot that no one could get into the opening. He said he worked on the fire by helping to carry water.

Mr. George Nethken, operator and foreman of the mine, stated that he was coming out of the working places and was about half way to the opening of the mine when he met Robert Jackson with an empty coal car and pony. Jackson told Mr. Nethken that the fan engine was on fire and that he would take Mr. Nethken down the heading a short distance. Jackson did take Mr. Nethken to within about 200 ft. of the outside of the mine. Mr. Nethken instructed Jackson to go back and get the men. There was no smell or sign of smoke at that point, said Mr. Nethken. About half way from the place where Jackson left

Mr. Nethken and the pit mouth there was a trap-door and it seemed that the trap-door was closed. Mr. Nethken said that he was within 20-feet of the trap-door when he ran into a wall of smoke and that he traveled approximately 70 feet with his light still burning. Then the light fell off his mining cap and he groped another 15 or 20 feet before he saw any light whatever. When he reached outside he saw the fire was out of control. There were two men outside, Fred Burrell and Paul Keller.

Mr. Nethken asked Fred Burrell if he would take the company truck and get the Kitzmiller fire department and Fred said that Mr. Nethken had better go as he could get there faster, and accordingly Mr. Nethken left. At the John Wilson house Mr. Nethken met an empty truck going to the Pee Wee mine and he told the driver, Teddy Markley, to tell the men at Pee Wee Mine that the fan house at Nethken was on fire and the men were in the mine. Then Mr. Nethken drove to Kitzmiller and saw Robert Pritts, Jr., close to the fire house and told him to blow the signal. Then George Nethken proceeded to the Pritts Bros. office and told Gerald Iman, and then he headed back to the mine. He met Fitzhugh Burrell at the Postoffice corner as he was enroute to the mine and told Fitzhugh to get the masks and equipment that he thought would be necessary. He then returned to the mine.

When he reached the mine the fire truck from Kitzmiller was arriving. Hollis Wilson and George Nethken put on gas masks and entered the mine. They proceeded to a distance of about 50-ft. and then returned outside. At this juncture Paul Keller, Wilbur Burrell and George Nethken re-entered the mine, Wilbur Burrell leading the way. Wilbur Burrell and Paul Keller were the first to find the men. The party returned outside and another crew was organized with Wilbur Burrell in charge. This party pushed a mine car into the mine, loaded the men in it and brought them outside. Artificial respiration was started immediately and was continued for approximately 2½ hours until the men were pronounced dead by the doctors.

Mr. George Nethken said further that Jackson took him to within 200-ft. of the mouth of the mine and he could not smell a bit of smoke at that point, but when he got down to the trap-door he could not see. He got within 15-ft. of the pit mouth before he could see the light. Mr. Nethken stated that they had installed a fresh roll of brattice cloth that morning at the face of Clarence Keller's heading, that they had used approximately two-thirds of the roll, and he also said that if the men had had a chance to short-circuit the air, they had plenty of brattice cloth on hand with which to accomplish the work.

Asked as to the cause, he stated he thought a leaky gasoline connection, caused by vibration between the tank and the carburetor, may have caused the fire. The driver of the tank wagon for M. E. Pritts, who was one of the crew of the fire truck, said that the fire company had used one tank of water on the truck, presumably 500 gallons. The only thing used on the fire was water, which was used immediately on

arrival. Water was used from the ditch at the mouth of the mine and the booster pump was put in operation. They continued to use water until the fire was extinguished. They arrived at the fire approximately 15 minutes after the alarm.

Soon after the bodies of the victims of the disaster had been recovered, District Mine Inspector C. J. Rowe, in whose district the Nethken Mine is located, arrived on the scene, as well as District Mine Inspector Frank T. Powers, Frostburg, Allegany County. As there was no need for their services they left after learning all they could about the disaster.

Inspector Rowe, upon his return to the office in Westernport, about 4:45 P. M. that afternoon, telephoned W. Dan Walker, Jr., Engineer-in-Charge, Federal Bureau of Mines, Fairmont, W. Va., advising him of the occurrence. Mr. Walker and Federal Coal-mine Inspectors W. D. Baldwin and T. J. McDonald arrived at the Nethken mine early on the morning of Friday, November 5 and were met by Inspectors Rowe and Powers and Chief Mine Engineer J. J. Rutledge. The Federal Inspectors, together with the State Inspectors, made an examination of the mine and took notes. Inspector Rowe held the hearing at Kitzmiller on Saturday morning November 6th.

Mr. Burrell, who was the only person outside this mine when the fire started, stated during the investigation conducted by Mr. Rowe, that the fan had stopped when he looked up toward the plant from the rock-dump where he was dumping a mine-car of rock. This fan was operating as a blowing fan. It would not have been possible to reverse the fan while the fire was in progress. Mr. Nethken reported that when this fan was installed on several occasions they had reversed the fan by changing the operating unit around, but had returned it to the position which makes the fan a blowing fan.

The Pee Wee mine is ventilated by a gasoline-driven fan, operated blowing and the installation is very similar to that at the Nethken mine. Part of the fan-house may have been at that time of metal sheeting. This Pee Wee fan was inspected by the Federal mine inspectors and apparently was approved by them. The return from the Pee Wee fan went through the Nethken mine to the outcrop. Mr. George Nethken, while the fire was in progress, sent a request to the management of the Pee Wee mine to speed up their fan in order to assist the ventilation in the Nethken mine. This was promptly done.

The Nethken fan was about 15-ft. distant from the mouth of the main aircourse, and over the mouth of the aircourse there was some square timber about 10 x 10 inches in cross-section. This was reported as having been second-hand bridge timber procured from the Baltimore and Ohio Railroad. This timber had been creosote-treated previous to the installation at the Nethken mine. It is not known just how long before the accident that this timber had been treated. The fire from the fan and the housing and the connection extended to the

treated timber over the opening of the main aircourse, and this timber burned slowly, and the firemen extinguished this blaze while they were putting out the fire in the fan-house. Some of the fumes from the creosoted timber, when it burned, may have been a factor in suffocating the five men.

There was issuing out of the mouth of the main aircourse the entire drainage of the mine workings, a stream of water about 2-ft. wide and two or three inches deep. The firemen used this water, as well as that from the tank on their trucks, in extinguishing the fire. Some of the helpers on the fire-truck dipped water in galvanized iron buckets from the running stream and threw it on the flames. When Messrs. Rutledge and Hinton arrived at the scene of the fire, Mr. Rutledge went into the main opening of the mine about 30-ft. He was not equipped with a gas mask and borrowed a flashlight from one of the firemen. The return air was very hot, due to the fire at the mouth of the main aircourse, which was the intake.

There is no doubt, as a result of the investigation, that it would have been possible for persons unequipped with breathing apparatus to have safely traveled against the return air up to the point where the bodies of the five men were found, before the fumes from the burning gasoline entered the air-current. Indeed, several men traversed this distance without gas masks during the recovery of the bodies. The victims might have escaped alive if they had remained at the working face, or they might have traveled through into the workings of Pee Wee Mine, where they would be going against the return air of that mine, but it would have been relatively fresh air. The Nethken mine intake air current entered the return air current soon after it entered the mine workings.

Apparently the pony was the first one of the party overcome, and the five men, including the driver, left the pony and the mine car, in which they had been riding, and progressed on foot to the point where they met the return air from the Nethken mine. When found the men were two by two, and Jackson ahead, indicating that the brothers had been helping each other along. Apparently, just when the fumes were the strongest, the five men had encountered the return air carrying the fumes from the fire at the mouth of the main aircourse of the Nethken Mine. They were probably exposed to it but a very short time, but a sufficient time to cause death from the Carbon Monoxide poisoning. The mouths of nearly all the victims were open, indicating that they had had difficulty in breathing.

Practically all of the small mines in Garrett County, which have ventilating fans, operate these fans by gasoline motors and these fans are operated blowing.

It has not been the custom of the Federal coal-mine inspectors to inspect small mines such as the one in question, although they did inspect the adjoining mine known as Pee Wee Mine.

There has been considerable said about reversing ventilating fans, particularly the fan at Milt No. 1 Mine of the Nethken Coal Company. It would not have been possible to reverse this fan while the fire was in progress. According to the testimony of the only eye-witness the fan had stopped, but the ventilating current continued to enter the mine after the fan had ceased operation. Had it been possible to reverse this fan it would probably have been some time before the current could be reversed since the drift opening is on the mountain-side and the outside air had ready access to the underground workings. As a rule, and this is well-known to experienced mining men, it is dangerous to reverse a ventilating fan until the conditions in the mine are fully known by those on the outside. Disasters have occurred through reversing the fan after an explosion or fire has occurred in a mine.

One of the criticisms after this disaster occurred was the fact that the fan was installed in a wooden fanhouse. There were until recently literally hundreds of ventilating fans in mines of the Middle West which were wholly constructed of wood but the engines operating such fans were always steam-driven. Since centrifugal fans have come into use and later the propeller type fan, the entire casing and covering of the fan proper has been constructed of metal and hence it was fire-proof.

As above indicated the return air from PeeWee Mine passed through the workings of the Milt No. 1 Mine and the PeeWee fan had a much greater air capacity than the fan at the Nethken mine.

LABOR CONDITIONS—1948

A suspension of work in the mines of Maryland began on March 15, 1948, and continued until April 23, 1948. In the last week or ten days of this period of suspension several attempts were made by mining companies in the Upper Potomac to resume operation but such companies were only able to operate a day or two when they were forced to cease operation and did not resume work until April 23, 1948.

However, in the lower part of George's Creek, stripping operations continued and considerable strip coal was loaded at that time. Approximately north of Lonaconing the strip pits, as well as underground workings, were absolutely idle.

SAFETY ORDER

A Safety Order was issued ordering that a fire-door be erected in the main airway in a small mine, and that fireproof housing be erected for the ventilating fan.

This Order was complied with.

REPORT OF VOCATIONAL MINING EDUCATION**School Year September 29, 1947—August 1, 1948**

L. C. HUTSON, Vocational Mining Instructor

The Night Mining Classes opened their sessions September 29, 1947, and closed May 22, 1948. Six classes were conducted in Garrett County and one class was conducted in Allegany County by Vocational Mining Instructor L. C. Hutson, under the supervision of the Maryland Bureau of Mines, in cooperation with the State Department of Education, the University of Maryland and the Boards of Education of Garrett and Allegany Counties.

Organization and Schedule

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

Crellin, Garrett County.....	Monday night
Vindex, Garrett County.....	Tuesday night
Lonaconing, Allegany County.....	Wednesday night
Kempton, Garrett County.....	Thursday night
Kitzmiller, Garrett County.....	Friday night

In addition to the above, a class for the night-shift men was conducted at Kitzmiller each Tuesday morning at 10:00 o'clock, and one for the Kempton night-shift each Thursday at 1:00 P. M.

The above classes met weekly, with the exception of holidays, for a period of thirty-three (33) weeks. The subjects studied were as follows:—Flame Safety Lamps, Mine Gases, Air Coursing, Mine Ventilation and Map Reading.

STATISTICS**CRELLIN CLASS:**

Number of men enrolled.....	53
Average age of men.....	21 years
Average previous educational preparation.....	8 years
New men enrolled.....	20
Occupations:	
Miners	25
Laborers	18
Officials	5
Students	5

VINDEX CLASS:

Number of men enrolled.....	21
Average age of men.....	34 years
Average previous educational preparation.....	7 years
New men enrolled.....	4
Occupations:	
Laborers	12
Miners	6
Officials	3

ANNUAL REPORT OF MARYLAND BUREAU OF MINES

LONACONING CLASS:

Number of men enrolled.....	15
Average age of men.....	33 years
Average previous educational preparation.....	8 years
New men enrolled.....	7
Occupations:	
Miners	9
Laborers	3
Officials	3

KEMPTON CLASS:

Number of men enrolled.....	25
Average age of men.....	34 years
Average previous educational preparation.....	9 years
New men enrolled.....	14
Occupations:	
Laborers	15
Officials	7
Miners	3

KITZMILLER CLASS:

Number of men enrolled.....	22
Average age of men.....	34 years
Average previous educational preparation.....	9 years
New men enrolled.....	9
Occupations:	
Miners	12
Laborers	5
Officials	5

Summary

Total number of men enrolled.....	136
Average weekly attendance (all classes).....	67
Average weekly attendance (Crellin Class).....	25
Average weekly attendance (Vindex Class).....	12
Average weekly attendance (Lonaconing Class).....	6
Average weekly attendance (Kempton Class).....	14
Average weekly attendance (Kitzmiller Class).....	10
New men enrolled (57).....	42%
Miners enrolled (58).....	42%
Officials enrolled (23).....	17%
Students enrolled (5).....	4%
Average age of men enrolled.....	33 years
Average previous educational preparation.....	8 years
Number of native-born Americans.....	136
Attendance of men enrolled.....	50%

REPORT OF THE SHORT COURSE IN COAL MINING—1948

L. C. HUTSON, Director

The twenty-fifth annual Short Course in Coal Mining, held at Kempton, Garrett County, Maryland, conducted by the Maryland Bureau of Mines, in cooperation with the University of Maryland, the State Department of Education and the Board of Education of Garrett County, opened June 14, 1948, and closed July 31, 1948.

The six weeks of the Course were held in the Elementary School building at Kempton, Garrett County.

Instruction Staff and Subjects

L. C. Hutson — Explosives, Mine Gases, Mine Ventilation, Haulage, Map Reading, Mine Fires and Explosions, Mining Arithmetic, Drainage and Pumping.
J. J. Rutledge — Mining Methods.

Schedule of Classes**First Week:**

5:30 to 6:30 Mining Arithmetic
6:45 to 7:30 Explosives
7:45 to 8:30 Mining Methods

Second Week:

5:30 to 6:30 Mining Arithmetic
6:45 to 7:30 Mine Gases
7:45 to 8:30 Mining Methods

Third Week:

5:30 to 6:30 Mining Arithmetic
6:45 to 7:30 Haulage and Drainage and Pumping
7:45 to 8:30 Mine Ventilation

Fourth Week:

5:30 to 6:30 Mining Arithmetic
6:45 to 7:30 Mine Ventilation
7:45 to 8:30 Map Reading

Fifth Week:

5:30 to 6:30 Mining Arithmetic
6:45 to 7:30 Mine Fires and Explosions
7:45 to 8:30 Map Reading

Sixth Week:

5:30 to 8:30 Review and Tests

Enrollment

Name	Address	Age	Occupation	Employer
Tony W. Cook.....	Kempton	31	Laborer	Davis Coal & Coke Co.
Morris Watring.....	Kempton	31	Laborer	Davis Coal & Coke Co.
John H. Geroski.....	Kempton	24	Laborer	Davis Coal & Coke Co.
Hilbert A. Allman.....	Kempton	39	Foreman	Davis Coal & Coke Co.
Curry A. Tasker.....	Kempton	31	Laborer	Davis Coal & Coke Co.
Edgil Knotts.....	Kempton	46	Laborer	Davis Coal & Coke Co.
Albert P. Gotto.....	Mt. Lake Park	32	Laborer	Davis Coal & Coke Co.
Chris J. Mosser.....	Kempton	42	Laborer	Davis Coal & Coke Co.
Orda Vanhorn.....	Kempton	35	Asst. Supt.	Davis Coal & Coke Co.
Marko Mance.....	Oakland	45	Operator	Self
Darrell Lantz.....	Kempton	28	Foreman	Davis Coke & Coal Co.
Walter Repetsky.....	Kempton	28	Foreman	Davis Coal & Coke Co.
Alvin Lantz, Jr.....	Kempton	24	Miner	Davis Coal & Coke Co.
Harry B. Buckley.....	Kempton	34	Safety Inst.	Davis Coal & Coke Co.
Bobby Allman.....	Kempton	16	Student	

SUMMARY

The average age of the students was 32 years. The average daily attendance was 14 men with an enrollment of 15.

The roster included one coal operator, one superintendent and one safety inspector.

Working conditions and hours continued to curtail the hours and subjects taught, as compared to pre-war years.

All of the above students worked each day, while attending the course during the evening hours.

Two of the students traveled a distance of 40 miles round trip, each day, to attend.

Also on the roster were a father and son, and two brothers.

Summary of the Night Classes and the Short Course

Total number of men enrolled.....	141
Average weekly attendance (Night Mining Classes).....	67
Average weekly attendance (Short Course).....	69
Total Night Mining Classes held.....	152
Total Short Course Classes held.....	87
Total Classes held.....	239
Total attendance, all classes.....	3306
Average attendance, per class held.....	13.4

Conclusion

The school year just concluded was a very satisfactory one in many respects. The enrollment while slightly smaller than the previous year, produced an attendance of approximately the same as last year.

While interest was marked in all the classes, the interest displayed by the students in the two night-shift workers groups, and the Crellin and Kempton classes were outstanding.

The cooperation of the local coal companies was, as always, excellent, and in two cases was especially marked.