

CALENDAR YEAR 1987  
SIXTY-FIFTH ANNUAL REPORT  
of the  
**MARYLAND BUREAU OF MINES**



TO  
HON. WILLIAM DONALD SCHAEFER  
Governor of Maryland

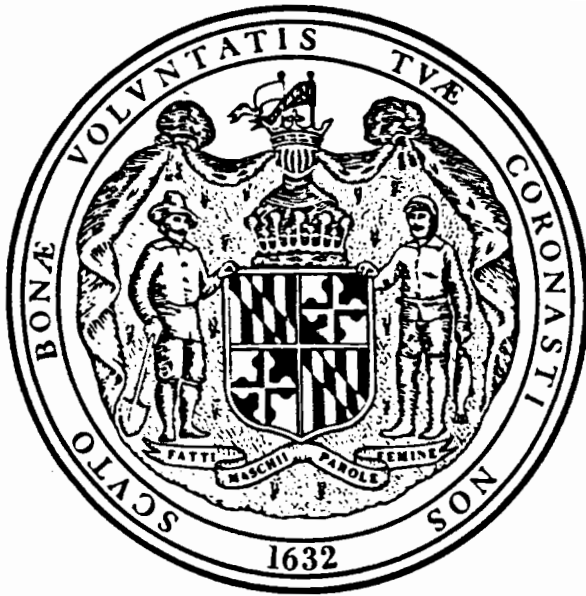
DEPARTMENT OF NATURAL RESOURCES  
TORREY C. BROWN, MD., The Secretary

WATER RESOURCES ADMINISTRATION

From

MARYLAND BUREAU OF MINES

ANTHONY F. ABAR, Director



**STATE OF MARYLAND**  
**WILLIAM DONALD SCHAEFER**  
**GOVERNOR**

**LOUIS L. GOLDSTEIN**  
**COMPTROLLER OF THE TREASURY**

**LUCILLE MAURER**  
**TEASURER**

**DEPARTMENT OF NATURAL RESOURCES**  
**TORREY C. BROWN, M.D.**  
**SECRETARY**

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STATE OF MARYLAND  
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**WATER RESOURCES ADMINISTRATION**

TELEPHONE NO.  
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69 HILL STREET  
FROSTBURG, MARYLAND 21532

**BUREAU OF MINES**

**INTRODUCTION**

Maryland is rich in natural resources. Its woods, wildlife, beaches, rivers, bays, and its mineral and energy resources provide a bountiful outdoor environment for our citizens. As Secretary of the Maryland Department of Natural Resources, I am convinced that public support of DNR's mission is essential if we are to properly protect, restore, and manage the State's bountiful natural resources. The information in this publication is designed to increase your understanding of our program and of Maryland's natural resources.

**Torrey C. Brown, M.D.**

FOR THE CALENDAR YEAR 1987  
REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 1987 totalled 3,933,623.94 tons. Production for 1987 represents a decrease of 121,688.53 from the 1986 production of 4,055,312.47 tons.

SUMMARY OF 1987 STATISTICS<sup>1</sup>

COAL PRODUCTION

Mining Method	Allegheny County	Garrett County	Total	%
Strip . . . .	790,253.09	810,166.55	1,600,419.64	40.0
Deep . . . .	0	2,332,554.30	2,332,554.30	59.9
Auger . . . .	650.00	.00	650.00	.1
<b>TOTALS . .</b>	<b>790,903.09</b>	<b>3,142,720.85</b>	<b>3,933,623.94</b>	<b>100%</b>

EMPLOYEES<sup>2</sup>

Type of Mine	Allegheny County	Garrett County	Total	Fatalities
Deep . . . .	0	326	326	0
Strip . . . .	207	146	353	0
<b>TOTALS . .</b>	<b>207</b>	<b>472</b>	<b>679</b>	<b>0</b>

Allegheny County shows a production of 3,820.78 net tons per man employed during 1987.

Garrett County shows a production of 6,802.42 net tons per man employed during 1987.

<sup>1</sup>Reports submitted by Maryland mining operators.

<sup>2</sup>These figures do not include office, supervisory personnel or independent truck haulers.

FOR THE CALENDAR YEAR 1987

TONNAGE BY COAL SEAMS

Allegheny County

Waynesburg . . . . .	19,653.50
Sewickley (Tyson). . . . .	241,305.43
Redstone . . . . .	102,964.05
Pittsburgh . . . . .	279,657.97
Morantown. . . . .	37,782.17
L. Pittsburgh. . . . .	21,434.32
Franklin . . . . .	49,746.27
Harlem . . . . .	0
Bakerstown . . . . .	13,088.09
Freeport . . . . .	0
Kittanning . . . . .	0
Federal Hill . . . . .	13,507.71
Barton . . . . .	11,763.58
TOTAL . . . . .	790,903.09

Garrett County

Sewickley. . . . .	0
Pittsburgh . . . . .	37,229.66
Morantown. . . . .	0
L. Pittsburgh . . . . .	85,042.00
Franklin . . . . .	99,509.57
Barton . . . . .	57,272.17
Elk Lick . . . . .	0
Harlem . . . . .	103,854.06
Bakerstown . . . . .	271,442.81
Brush Creek. . . . .	0
Freeport . . . . .	2,434,081.65
Kittanning . . . . .	37,692.93
Redstone . . . . .	16,596.00
TOTAL . . . . .	3,142,720.85

TONNAGE BY BASIN

Lower Youghiogheny . . . . .	31,005.28
Upper Youghiogheny . . . . .	.00
Casselman. . . . .	49,373.22
Casselman (Cherry Creek) . . . . .	4,365.06
Potomac. . . . .	2,752,998.12
George's Creek . . . . .	1,095,882.26
TOTAL . . . . .	3,933,623.94

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1987  
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE					ACRES				
						Deep	Strip	Auger	Mined	Back-filled	Planted	Approved			
Andalex Resources, Inc.	284	Franklin	0	0	0		Complete			0.0	0.0	0.0	11.0		
	389	Pittsburgh	6	236	14,523		22,107.70			16.0	5.0	0.0	0.0		
		Morantown	-	-	-		7,636.25			-	-	-	-		
		Redstone	-	-	-		31,502.19			-	-	-	-		
						3,280.90			-	-	-	-			
Ayers Coal Co.	323	Franklin	2	148	838		173.00			2.0	6.0	6.0	0.0		
Barton Mining Co.	338	Franklin	16	300	32,798		32,537.25			17.2	3.0	3.0	-		
		L. Pittsburgh	-	-	-		21,434.32			-	-	-	-		
		Pittsburgh	-	-	-		21,434.31			-	-	-	-		
		Morantown	-	-	-		11,017.03			-	-	-	-		
Bessemer Iron & Coal*	296	Bakerstown	0	0	0		.00			0.0	0.0	0.0	0.0		
Black Diamond Energies	SC-83-110	Tipple	3	742	5,936										
	264	Pittsburgh	7	250	11,339		5,101.43			3.0	3.0	3.0	0.0		
Brashear Coal Mines		Morantown	-	-	-		1,351.05			-	-	-	-		
		Franklin	-	-	-		16,386.02			-	-	-	-		
	398	Bakerstown	4	78	1,587		6,753.07			3.3	0.0	0.0	0.0		
Buffalo Coal Co.	276	Pittsburgh	0	0	0		.00			0.0	0.5	0.5	0.0		
	326	Pittsburgh	5	247	9,552		55,091.00			8.0	6.0	6.0	0.0		
	328	Sewickley	7	247	11,616		32,893.50			12.0	11.0	11.0	0.0		
	334	Franklin	0	0	0		Complete			0.0	0.0	0.0	0.0		
	359	Pittsburgh	0	0	0		.00			0.0	0.0	0.0	0.0		

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1987  
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE				ACRES			
						Deep	Strip	Auger	Mined	Back-filled	Planted	Approved	
Buffalo Coal Co.	SC-83-101	Tipple	2	247	3,295								
	SC-83-104	Tipple	4	247	8,095								
	SC-87-117	Tipple	2	244	3,904								
Clise Coal Co.	213	Sewickley	12	291	30,019		40,183.89		11.0	9.0	9.0	0.0	0.0
	234	Sewickley	1	47	553		Complete		0.0	5.0	5.0	0.0	0.0
	270	Sewickley	2	36	668		.00		1.0	10.0	10.0	0.0	0.0
	315	Sewickley	1	10	100		.00		0.0	7.0	7.0	0.0	0.0
404			0	0	0		Not Started		0.0	0.0	0.0	0.0	0.0
Commonwealth Coals	337	Morantown	0	0	0		.00		0.0	4.0	4.0	0.0	0.0
	373	Pittsburgh	3	246	6,144		5,450.30		0.0	20.0	20.0	0.0	0.0
		Morantown	-	-	-		2,490.61		-	-	-	-	-
		Redstone	-	-	-		3,628.08		-	-	-	-	-
Delta Coal Sales	SC-83-107	Tipple	3	208	4,087								
Delta Mining, Inc.	378	Federal Hill	10	208	8,246		13,507.71		23.0	0.0	0.0	0.0	0.0
		Bakerstown	-	-	-		6,335.02		-	-	-	-	-
		Barton	-	-	-		11,763.58		-	-	-	-	-
	403	Sewickley	17	206	24,970		43.95		7.0	6.0	6.0	0.0	0.0
		Sewickley	-	-	-		14,411.87		-	-	-	-	-
		Redstone	-	-	-		16,382.78		-	-	-	-	-
	Pittsburgh	-	-	-		49,228.98		-	-	-	-	-	
	Morantown	-	-	-		10,955.02		-	-	-	-	-	
	Waynesburg	-	-	-		403.50		-	-	-	-	-	



STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1987  
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Emp. Worked	Days Worked	Man-Hour Exposure	TONNAGE				ACRES			
						Deep	Strip	Auger	Mined	Back-filled	Planted	Approved	
J. Duckworth Coal Co.	324	Pittsburgh	0	0	0		.00		0.0	0.0	0.0	0.0	0.0
	352	Pittsburgh	4	91	2,912		6,562.01		0.0	0.0	0.0	4.3	0.0
	372	Pittsburgh	2	138	2,312		5,870.55		3.0	4.0	4.0	0.0	0.0
	SC-87-116	Tripple	2	104	1,664								
R. Duckworth Coal Co.	357	Bakerstown	0	0	0		.00		0.0	0.0	0.0	13.0	0.0
	381	Bakerstown	0	0	0		.00		0.0	0.0	0.0	0.0	0.0
Bechtel Coal Co.	184A	Franklin	2	135	2,448			650.00	0.5	0.0	0.0	0.0	0.0
Evans Coal Co.	384	Pittsburgh	0	0	0		Complete		0.0	0.0	0.0	0.0	2.0
Ever, Inc.	SC-83-114	Gob Pile	0	0	0								
Fairview Coal Co.	399	Pittsburgh	4	252	8,173		20,504.42		18.2	5.0	3.0	0.0	0.0
		Morantown	-	-	-		2,586.51		-	-	-	-	-
		Redstone	-	-	-		3,856.31		-	-	-	-	-
Petterloif Mining	340	Bakerstown	0	0	0		Complete		0.0	0.0	0.0	0.0	8.3
	388	Kittanning	0	0	0		.00		0.0	0.0	0.0	0.0	0.0
El-Note, Inc.	231	Pittsburgh	3	88	2,112		3,133.38		2.0	9.0	9.0	0.0	0.0
Jenkins Development Co.	411	Sewickley	6	18	389		680.23		8.0	0.0	0.0	0.0	0.0
Jones Coal, Inc.	385	Sewickley	5	207	11,078		12,372.07		5.0	1.0	1.0	0.0	0.0
	407	Pittsburgh	2	75	1,145		3,327.06		5.0	0.0	0.0	0.0	0.0

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1987  
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE			ACRES			
						Deep	Strip	Auger	Mined	Back-filled	Planted	Approved
K & J Development, Inc.	182	Pittsburgh	0	0	0		.00			0.0	0.0	0.0
	393	Morantown	2	68	1,120		1,162.05		0.2	0.0	0.0	0.0
		Pittsburgh Redstone	-	-	-		2,132.36 2,015.42		-	-	-	-
Clyde Marsh Coal Co.	268	Redstone	0	0	0		.00		0.0	3.0	3.0	10.0
Merlo, C., J.	390	Pittsburgh	0	0	0		Complete		0.0	0.0	0.0	2.0
Oliver Mining Co.*	233	Pittsburgh	0	0	0		.00		0.0	0.0	0.0	0.0
Potomac Coal Co.	SC-83-110	Tipple	8	251	5,180							
Win-More Mining & Const.	273	Pittsburgh	4	170	5,440		3,903.34		2.0	0.0	0.0	0.0
		Redstone	-	-	-		9,518.27		-	-	-	-
		Sewickley	-	-	-		654.02		-	-	-	-
		Morantown	-	-	-		330.15		-	-	-	-
	375	Pittsburgh	4	62	1,984		2,191.13		0.0	0.0	0.0	0.0
	Redstone	-	-	-		1,281.00		-	-	-	-	
	Morantown	-	-	-		253.50		-	-	-	-	
Winner Bros. Coal Co.	40	Redstone	7	262	14,394		34,780.00		4.0	0.0	0.0	0.0
	202	Sewickley	0	0	0		Complete		0.0	0.0	0.0	4.0
	207	Pittsburgh	16	262	34,783		48,420.00		5.0	8.0	8.0	0.0
		Sewickley	-	-	-		72,860.00		-	-	-	-

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1987  
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE			ACRES			
						Deep	Strip	Auger	Mined	Back-filled	Planted	Approved
Winner Bros. Coal Co.	247	Pittsburgh	8	262	17,316		22,000.00		9.0	11.0	11.0	0.0
		Sewickley	-	-	-		3,270.00		-	-	-	0.0
	286	Sewickley	7	262	15,782		47,000.00		0.0	0.0	0.0	0.0
	318	Sewickley	4	174	5,693		13,655.00		1.0	7.0	7.0	0.0
	329	Redstone	0	0	0		Complete		0.0	0.0	0.0	0.0
	351	Waynesburg	0	0	0		Complete		0.0	0.0	0.0	37.0
	353	Waynesburg	5	262	10,661		19,250.00		10.0	0.0	0.0	0.0
	368	Pittsburgh	2	87	1,370		3,200.00		0.0	0.0	0.0	0.0
374	Waynesburg	0	0	0		.00		0.0	0.0	0.0	0.0	
SC-83-112	Tipple	3	73	1,152				0.0	0.0	0.0	0.0	
<b>TOTAL ALLEGANY COUNTY</b>						<b>207</b>	<b>7,541</b>	<b>325,378</b>	<b>176.4</b>	<b>143.5</b>	<b>136.5</b>	<b>91.6</b>

\*Annual Report information was not submitted by this company.

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1987  
FOR GARRETT COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE			ACRES			
						Deep	Strip	Auger	Mined	Back-filled	Planted	Approved
Action Mining, Inc.	394	Harlem	6	249	12,483		26,375.13		11.0	15.0	15.0	0.0
Allegheny Mining Corp.	277	Freeport	5	94	4,192		4,365.06		8.0	19.0	19.0	0.0
	297	Freeport	0	0	0		Complete		0.0	38.0	38.0	0.0
	383	Freeport	5	118	4,640		10,189.87		0.0	0.0	0.0	0.0
	396	Harlem	4	195	5,904		24,969.93		24.0	0.0	0.0	0.0
Beener Coal Co.	143	Pittsburgh Franklin	19	165	45,527		37,229.60 93,578.47		9.0	28.0	28.0	0.0
Bittinger Coal Co.	265	Brush Creek	0	0	0		.00		0.0	0.0	0.0	0.0
Buffalo Coal Co., Inc.	215	Bakerstown	7	247	14,536		29,581.00		103.0	119.0	119.0	0.0
	240	Bakerstown	5	83	3,304		8,790.00		7.0	31.0	31.0	0.0
	360	Freeport	9	207	14,032		33,164.00		12.5	38.5	9.5	13.8
	366	Barton	0	0	0		Complete		0.0	0.0	0.0	0.0
	367	(in WV)					area of mineral extraction is entirely in the State of West Virginia					
409	Bakerstown	7	185	8,064		25,934.00		39.0	14.0	10.0	0.0	
SC-83-102	Tippie	0	0	0								
SC-83-103	Tippie	0	0	0								
SC-83-105	Tippie	0	0	0								

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1987  
FOR GARRETT COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE						ACRES		
						Deep	Strip	Auger	Mined	Back-filled	Planted	Approved		
Delta Mining, Inc.	345	Bakerstown	0	0	0		Complete		0.0	0.0	0.0	30.0		
	400	Bakerstown	5	189	3,566		11,039.41		25.0	0.0	0.0	0.0		
	SC-83-108	Tipple							0.0	0.0	0.0	0.0		
J. Duckworth Coal Co.	364	Bakerstown	0	0	0		.00		0.0	0.0	0.0	0.0		
	412						Not started							
G&S Coal Co.	325	Barton	2	129	2,064		4,939.95		0.0	5.0	5.0	0.0		
	365	Freeport	10	262	20,960		60,496.07		20.0	26.0	14.0	0.0		
Hilltop Const.*	387	Freeport	0	0	0		.00		0.0	0.0	0.0	0.0		
Jones Coal, Inc.	376	Kittanning	1	2	20		.00		0.0	4.0	4.0	0.0		
	405	Freeport	5	146	7,483		31,005.28		22.0	0.0	0.0	0.0		
Jones Mining, Inc.	386	Kittanning	0	0	0		.00		1.0	0.0	0.0	0.0		
L.C. Coal Co.	343	Bakerstown	0	0	0		.00		0.0	0.0	0.0	0.0		
Masteller Coal Co.	379	Bakerstown	0	0	0		Complete		0.0	0.0	0.0	0.0		
	DM107	Elk Lick	1	276	2,397		.00		0.0	0.0	0.0	0.0		
Mettiki Coal Corp.	DM101	Freeport	314	240	642,321		2,294,861.37		0.0	0.0	0.0	0.0		
	DM104	Freeport	0	0	0		.00		0.0	0.0	0.0	0.0		
	DM105	Freeport	0	0	0		.00		0.0	0.0	0.0	0.0		
Mt. Top Coal Co.	DM103	Kittanning	11	225	17,456		37,692.93		0.0	0.0	0.0	0.0		

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1987  
FOR GARRETT COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE			ACRES			
						Deep	Strip	Auger	Mined	Back-filled	Planted	Approved
Oak Springs Coal Co.	391	Bakerstown	0	0	0		Complete		0.0	0.0	0.0	2.0
Patriot Mining Co., Inc.	406	Harlem Bakerstown	18	232	47,671		52,509.00 169,870.00		131.0	56.0	56.0	0.0
Pine Mt. Coal Co.	382	Franklin Bakerstown	3	130	2,992		1,633.10 3,573.16		5.0	1.0	1.0	0.0
	402	Bakerstown	3	106	2,544		4,220.90		0.0	5.0	5.0	0.0
Schwinabart & Green	348	Bakerstown	5	217	8,020		11,958.68		2.0	9.0	4.0	0.0
Star-Jan Excavating	395	Freeport	0	0	0		Complete		0.0	0.0	0.0	2.0
Tri Star Mining, Inc.	408	Barton	5	254	12,627		52,332.22		27.0	7.0	7.0	0.0
Wassell, Walter	410	Bakerstown	3	70	1,920		6,475.72		15.0	0.0	0.0	0.0
Westvaco Resources	333	L. Pittsburgh Redstone Franklin Tipton	19	254	40,616		85,042.00 16,596.00 4,298.00		35.0	12.0	22.0	0.0
SC-83-111			Combined with Permit 333									
TOTAL GARRETT COUNTY			472	4,275	925,339	2,332,554.30	810,166.55		496.5	427.5	387.5	47.8
TOTAL ALLEGANY COUNTY			207	7,541	325,378		790,253.09	650.00	176.4	143.5	136.5	91.6
TOTAL BOTH COUNTIES			679	11,816	1,250,717	2,332,554.30	1,600,419.64	650.00	672.9	571.0	524.0	139.4

\*Annual Report information was not submitted by this company.

FOR CALENDAR YEAR 1987  
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 1987  
(By Geological Basin)

Table No. 1

	Acres Approved By LRC	ACRES THIS YEAR*				Planted	Revers Bond Release	Final Reports
		Permitted	Mined	Backfilled				
<b>Allegheny County:</b>								
Georges Creek Basin	71.60	100.70	176.40	143.50	136.50	91.60	6	
<b>Garrett County:</b>								
Georges Creek Basin	96.00	30.00	91.00	53.00	63.00	2.00	1	
Potomac River Basin	0	135.00	336.50	327.50	282.50	13.80	0	
Casselman River Basin**	0	0	38.00	24.00	19.00	30.00	0	
Cherry Creek Basin**	0	0	8.00	19.00	19.00	0	0	
Upper Yough Basin	0	0	0	0	0	2.00	0	
Lower Yough Basin	0	2.00	23.00	4.00	4.00	0	0	
<b>TOTAL GARRETT COUNTY</b>	<b>96.00</b>	<b>167.00</b>	<b>496.50</b>	<b>427.50</b>	<b>387.50</b>	<b>47.80</b>	<b>1</b>	
<b>TOTAL BOTH COUNTIES</b>	<b>167.60</b>	<b>267.70</b>	<b>672.90</b>	<b>571.00</b>	<b>524.00</b>	<b>139.40</b>	<b>7</b>	

Table 2

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 1987

<b>Allegheny County:</b>							
Georges Creek Basin	6,574.38	5,763.50	4,257.80	3,595.97	3,576.80	2,804.60	46
<b>Garrett County:</b>							
Georges Creek Basin	1,791.00	1,527.00	1,608.45	1,452.85	1,720.05	1,102.30	11
Potomac River Basin	3,322.20	3,041.00	2,212.30	2,467.70	2,604.60	2,182.40	25
Casselman River Basin**	1,602.30	1,361.60	1,044.00	1,128.50	1,005.20	863.50	22
Cherry Creek Basin**	589.00	667.00	671.50	545.90	512.80	439.75	9
Upper Yough Basin	253.00	216.00	157.35	187.35	161.30	192.90	5
Lower Yough Basin	1,302.50	1,291.00	876.00	1,085.06	1,021.16	798.40	27
<b>TOTAL GARRETT COUNTY</b>	<b>8,860.00</b>	<b>8,103.60</b>	<b>6,569.60</b>	<b>6,867.36</b>	<b>7,025.11</b>	<b>5,579.25</b>	<b>99</b>
<b>TOTAL BOTH COUNTIES</b>	<b>15,434.38</b>	<b>13,867.10</b>	<b>10,827.40</b>	<b>10,463.33</b>	<b>10,601.91</b>	<b>8,383.85</b>	<b>145</b>

\*where difference occurs between Approved and Permitted, either Permit was approved in 1986 and not issued until 1987, or Permit was not issued.

\*\*Both Casselman Geological Basin.

FOR CALENDAR YEAR 1987

SUMMARY OF MINING AND RECLAMATION STATISTICS

Table No. 3

Year	New Surface Mine Licenses Issued	New Surface Mine Permits Issued	New Deep Mine Permits Issued	A.M.&R.P.R.'s Processed	Amended Permits Processed	Forfeitures	Permits Completed & Planted	Site Evaluation Committee Days	Land Reclamation Committee Days
1987	1	7	0	61	3	0	7	21	10
1986	4	6	0	72	1	1	11	19	11
1985	8	6	0	90	7	1	5	20	13
1984	5	7	0	71	4	3	9	28	9
1983	13	12	0	97	11	0	11	25	15
1982	8	11	1	99	15	0	16	31	12
1981	10	0	0	100	11	1	16	22	9
1980	6	19	0	111	19	5	15	25	11
1979	8	7	0	139	8	4	19	22	9
1978	9	20	5	156	24	1	17	23	13
1977	13	25	1	135	36	0	19	32	11
1976	12	19	0	111	38	0	3	28	12
1975	20	37	0	92	62	0	16	23	14
Cumulative	117	176	7	1,334	239	16	164	319	149
Total	117	176	7	1,334	239	16	164	319	149



FOR CALENDAR YEAR 1987  
BUREAU OF MINES EMPLOYEES

Anthony F. Abar . . . . . Director  
Stephen M. Layton . . . . . Energy Resources Officer IV  
Fred L. Bagley . . . . . Energy Resources Officer III  
Alan V. Hooker . . . . . Energy Resources Officer III  
Jeffrey S. McCombs . . . . . Energy Resources Officer I  
Richard A. Gardner . . . . . Energy Resources Officer I  
Constance A. Lyons. . . . . Energy Resources Officer I  
Mark Carney . . . . . Energy Resources Officer I  
P. Douglas Curtis . . . . . District Mine Inspector  
John C. Eilers . . . . . District Mine Inspector  
Raymond Karlstrand . . . . . District Mine Inspector  
Joseph E. Mills . . . . . District Mine Inspector  
Ruth D. Booth . . . . . Administrative Officer  
Cathy A. Hooker . . . . . Stenographer Clerk I  
Sallie A. Ricker. . . . . Office Secretary II  
Mary Lynn Pegg . . . . . Laboratory Scientist IV  
Julie LaPorta . . . . . Laboratory Scientist I

FOR THE CALENDAR YEAR 1987  
LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 1987:

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

Kenneth N. Weaver (Chairman), Maryland Geological Survey  
Stephen M. Layton, Bureau of Mines  
George Gilmore, Forest, Park, and Wildlife Service  
Edward Golden, Forest, Park, and Wildlife Service

DEPARTMENT OF THE ENVIRONMENT

Robert V. Creter, Office of Environmental Programs

CITIZENS' REPRESENTATIVES:

June Neder, Allegany County  
Jessie McCullough, Garrett County

COUNTY PLANNING & ZONING REPRESENTATIVES:

Tim Carney, Allegany County  
Margaret Jamison, Garrett County (7/87-12/87)

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Craig Hartsock, Allegany Soil Conservation District  
Shaun Sanders, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

John E. Carey  
Steve Shaffer (7/87-12/87)

Functions and Duties of the Committee:

The Land Reclamation Committee oversees land reclamation activities related to the surface mining of coal in Maryland. The Committee may enter on any surface mining operation to determine land reclamation conditions and progress.

The Land Reclamation Committee visits sites for which mining permit applications have been submitted/approved to: (1) determine the suitability of the proposed reclamation plan; (2) review annual mining and reclamation progress; and (3) evaluate revegetation.

The specific duties addressed by the Committee during its monthly meetings include:

1. Review and approval of all reclamation plans;
2. Review and approval of all Annual Mining and Reclamation Progress Reports;
3. Establish amount of revegetation bond for each operation;
4. Review and approval of all revegetation prior to bond release.

Other functions of the Land Reclamation Committee include:

1. Study and recommend any amendments to the strip mining law and regulations;
2. Recommend to the Department the expenditure of funds for as much as 50% of the cost of lime, fertilizer and seed for an approved mining and reclamation plan;
3. Approve the expenditure of funds that are received by the Department from any sources for the reclamation and revegetation of any strip mined area within the State.

FOR CALENDAR YEAR 1987

REVEGETATION OF STRIP MINED LANDS

The State Land Reclamation Committee (LRC) voted to release 139 acres of reclaimed surface coal mined lands from a total of 187 acres eligible for revegetation bond release during 1987. The LRC also voted to reduce revegetation bond on 561 acres from a total of 648 eligible acres. This action was taken after consideration of 75 planting reports that were filed by 29 coal companies.

All reclaimed acres were planted with a grass and legume mixture to insure adequate erosion control protection. In addition trees and/or shrubs were planted on 23 acres that were released and 110 acres that were reduced.

The mining law requires that a Backfilling and Planting report be submitted to the Bureau within two weeks after the actual planting is completed. When this report is signed by the mine inspector, the five year evaluation period begins. The five year revegetation bond holding period is a requirement for all mining permits issued after July 1, 1979.

All reclaimed permit acres (including tipples, processing plants, and gob piles) may have revegetation bonds reduced after two years by an amount not to exceed 50% of the bond, and total bond release after five years from the approved planting date.

Two acre permits can have 50% of the revegetation bond released when the mine inspector approves the Backfilling and Planting Report, and total bond released after two years from the approved planting date.

Prospect Permits can have bond released when the Bureau determines an adequate vegetative cover has been established. A time period for evaluation is not specified.

The revegetation bond can be reduced when the following is attained:

1. Revegetation has been established in accordance with the approved reclamation plan and the standards for success of revegetation are met (see standards below);

2. The revegetated area is not contributing suspended solids to stream flow or runoff outside of the permit area in excess of the requirements of the regulatory program;
3. With respect to prime farmlands, soil productivity has been returned to the level of yield required; and
4. All temporary drainage control structures not authorized to remain on the permit area are removed and the affected area is regraded, seeded and mulched; or all permanent structures are inspected and any identified deficiencies are repaired.

The bond remaining on an area may be released when the permittee has successfully completed reclamation operations in accordance with the approved reclamation plan and achieved compliance with the requirements of the regulatory program, and the applicable liability period has expired.

The standards used by the LRC and the Bureau for revegetation bond release and reduction are as follows:

1. Area must be 90% covered.
2. Area must be covered by at least 10% permanent legume, well distributed.
3. Bare areas must not exceed 900 square feet at any particular location. However, the overall coverage of 90% must be obtained.
4. There must not be an depression or rills and gullies over nine inches in depth in the revegetated area.
5. There must not be any seeps discharging toxic water that causes degradation of the vegetation growing on the area.
6. There must not be any permit suspension/revocation, bond forfeiture, or other enforcement action pending on the permit area.
7. A minimum of 450 living stems well distributed per acre is required when trees and shrubs are planted.
8. Any special reclamation requirements approved in the mining permit must be met.

9. Bond reductions are not considered before at least two years from the date of approved planting.

When all of the above requirements have been achieved, it is possible that a longer evaluation time may be required if the health conditions of the vegetation are questionable. The Bureau of Mines has the final authority to release bond after LRC approval of revegetation.

Bond monies cannot be returned to permittees until they comply with three procedural requirements of the mining law: (1) advertise once a week for four consecutive weeks in a newspaper of general circulation in the jurisdiction affected, (2) notify adjoining property owners, local government bodies, sewage authorities and water companies by certified mail of the pending bond release, and (3) make application for bond release to the Bureau (The Bureau of Mines must receive copies of the advertisements and landowner notifications).

In January of each year, a listing of acres eligible for revegetation bond release and reduction during that year is compiled and available from the Bureau of Mines.

FOR CALENDAR YEAR 1987

ABANDONED MINE LAND RECLAMATION

The Maryland Bureau of Mines administers two programs to reclaim and/or restore land and water resources adversely affected by past coal mining practices. These two programs are: (1) Maryland Federal Abandoned Mine Reclamation Program, implemented utilizing Federal funds available under the Federal Surface Mining Control and Reclamation Act of 1977 (U.S. Public Law 95-87) under the authority of Natural Resources Article (NRA), Title 7, Subtitle 9 of the Annotated Code of Maryland, and (2) Maryland Mine Reclamation Program, implemented utilizing funds from the Bituminous Coal Open-Pit Mining Reclamation Fund (BCMRF) under the authority of NRA, Title 7, Subtitle 5; the Deep Mining Fund under the authority of NRA, Title 7, Subtitle 5A; and the Mine Reclamation and Water Quality Restoration Loan under the authority of NRA, Title 7, Subtitle 6.

Maryland Federal Abandoned Mine Reclamation Program

The Maryland Abandoned Mine Land Reclamation Plan received Federal approval on July 16, 1982, thus enabling Maryland to receive Federal funds for the reclamation of abandoned mine lands. During 1987, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provide \$1,138,243 for the reclamation of approximately 124 acres of abandoned mine lands in Allegany and Garrett Counties, Maryland.

Projects Under Construction During 1987

1. Foxtown Road Reclamation Project  
Location: Approximately 8½ miles SE of Grantsville, Garrett County, adjacent Foxtown Road.  
Size: 18 acres.  
Scope of Work: Backfill, regrade and revegetate an abandoned surface mine pit to reduce acid and sediment pollution loading into Cherry Creek.  
Cost: \$22,750.00  
Fund Source: Maryland-Federal AML Fund

2. Kelley, Liller, Buffalo Reclamation Project  
 Location: Approximately 4.2 miles ESE of Oakland, Garrett County, adjacent Table Rock Road.  
 Size: 35 acres.  
 Scope of Work: Backfill, regrade and revegetate an abandoned surface mine pit to eliminate the unauthorized dumping of garbage in the pit and reduce acid delivery into Sand Spring Run.  
 Cost: \$175,000  
 Fund Source: Maryland-Federal AML Fund
  
3. Table Rock/Backbone Mt. Reclamation Project  
 Location: Approximately 4.2 miles S of Oakland, Garrett County, adjacent Route 50.  
 Size: 8 acres.  
 Scope of Work: Backfill and regrade an abandoned surface mine pit to eliminate the health and safety hazards posed by trash and tires in the pit area.  
 Cost: Approximately \$19,000  
 Fund Source: Maryland-Federal AML Fund

#### Maryland Mine Reclamation Program

Utilizing monies from the Bituminous Coal Open-Pit Mining Reclamation Fund and the Deep Mine Fund (derived from a 9¢ per ton of coal mined surcharge), 19 acres of abandoned mine lands were reclaimed during 1987. Funding for these reclamation projects totalled \$196,335.

#### Projects Under Construction During 1987

1. Kitzmiller Water Supply Reservoir Landslide Stabilization Project  
 Location: Approximately 1 mile NW of Kitzmiller, Garrett County, adjacent North Shore Road.  
 Size: 5 acres.  
 Scope of Work: Regrade and stabilize landslide on coal spoil material above the Kitzmiller Water Supply Reservoir on Wolfden Run.  
 Cost: Approximately \$82,000.00  
 Fund Source: (1) BCMRF-Garrett County  
 (2) Deep Mine Fund
  
2. Moran Manor Reclamation Project  
 Location: Franklin, Allegany County, 1½ miles north of Westernport, adjacent MD Route 36.  
 Size: 3 acres.



- Scope of Work: Dispose of a 10,000 cubic yard coal refuse pile, regrade the disturbed area, topsoil and revegetate. Control mine drainage with drainage channel.
- Cost: \$42,200.00
- Fund Source: (1) Deep Mine Fund  
(2) Housing & Urban Development (HUD) Funds through Allegany County Housing Authority
3. Frostburg Coal Reclamation Project
- Location: Shaft, Allegany County, along MD Route 936.
- Size: 4 acres.
- Scope of Work: Excavate and regrade approximately 43,000 cubic yards of refuse material, transport and spread topsoiling material over the disturbed area, and revegetate.
- Cost: \$45,535.00
- Fund Source: Deep Mine Fund
4. Winner Special Reclamation Project
- Location: Woodland, Allegany County, 0.5 miles southwest of Woodland, along Legislative Road.
- Size: 1.5 acres.
- Scope of Work: Excavate approximately 11,200 cubic yards of abandoned spoil material and blend material into backfilling operations of adjacent surface mining permit, and revegetate all disturbed areas.
- Cost: \$7,100.00
- Fund Source: BCMRF-Allegany County
5. Allegheny Mining Corporation
- Location: Approximately 4.2 miles southeast of Loch Lynn Heights, Garrett County, along the Bethlehem Road.
- Size: 5.4 acres.
- Scope of Work: Excavate approximately 25,000 cubic yards of abandoned spoil material and blend material into backfilling operations of adjacent surface mining permit, and revegetate all disturbed areas.
- Cost: \$19,500.00
- Fund Source: BCMRF-Garrett County

MINE FOREMAN AND FIRE BOSS  
EXAMINATIONS AND CERTIFICATIONS

The number of Mine Foremen and Fire Boss applicants examined and certified from 1976 through 1987 are identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
1987	0	0	10*	0
1986	0	0	25*	0
1985	0	0	11*	0
1984	0	0	0	0
1983	1	26	1	21
1982	11	60	7	20
1981	0	0	0	0
1980	8	36	3	21
1979	14	28	12	26
1978	30	16	22	16
1977	0	0	0	0
1976	11	0	11	0

\*These applicants were upgraded from Fire Boss to Foreman, based on years of experience, without taking an examination.

INSPECTION AND ENFORCEMENT ACTIVITIES  
1983-1987

TYPE OF ACTION	1983	1984	1985	1986	1987
Inspections	1811	1777	1910	1873	1728
Notices of Violations	147	127	94	84	35
Cessation Orders	65	43	43	25	21
Citizen Complaints	16	20	17	19	37
Bond Forfeitures	0	3	1	1	0

COMPARATIVE ACCIDENT REPORT

Year	Man-Hour Exposure	Tons Produced	Fatalities	Lost Time Accidents	Frequency	Fatalities Per Million Man-Hours	Fatalities Per Million Short Tons	Non-Fatal Per Million Man-Hours	Non-Fatal Per Million Short Tons	Tons Per Fatality	Tons Per Non-Fatal Injuries
1987	1,250,717.00	3,933,623.94	0	49	39.30	0	0	39.30	12.45	0	80,278.03
1986	1,199,234.00	4,055,312.47	0	15	12.51	0	0	12.51	3.70	0	270,354.16
1985	1,351,526.00	3,062,831.07	0	30	22.20	0	0	22.20	9.79	0	102,094.37
1984	1,749,464.25	3,993,299.82	1	35	20.00	.57	.25	20.00	8.76	3,993,299.82	114,094.28
1983	1,367,297.75	3,086,835.57	0	5	3.65	0	0	3.65	1.61	0	61,367.11
1982	2,085,157.75	3,459,891.66	0	5	2.39	0	0	2.39	1.44	0	681,978.33
1981	2,218,325.69	4,451,559.31	0	82	36.96	0	0	36.96	18.42	0	54,287.30
1980	2,089,982.50	3,760,092.25	0	61	29.18	0	0	29.18	16.22	0	61,640.85
1979	1,855,326.73	2,716,617.07	3	29	15.63	1.61	1.10	14.01	9.51	905,539.02	104,485.27
1978	1,429,612.00	2,851,321.89	1	24	16.78	.69	.35	16.08	8.06	2,851,321.89	123,970.51
1977	1,373,626.25	3,028,629.66	0	15	10.90	0	0	10.92	4.95	—	201,908.64
1976	1,287,997.50	2,695,178.96	0	4	3.10	0	0	3.10	1.48	—	673,794.74
1975	981,372.00	2,520,765.27	1	5	5.09	1.01	.39	4.07	1.58	2,520,765.27	630,191.31
1974	697,707.50	2,221,412.94	1	0	0	1.43	.45	0	0	2,221,412.94	N.A.
1973	541,210.00	1,754,130.93	0	3	5.54	0	0	5.54	1.71	1,754,130.93	584,710.31
1972	520,285.00	1,638,418.46	0	5	9.61	0	0	9.61	3.05	1,638,418.46	327,683.69
1971	806,056.00	1,591,677.20	0	6	7.44	0	0	7.44	3.77	1,591,677.20	265,279.53

FOR THE CALENDAR YEAR 1987

ACCIDENT REPORT

COMPANY	PERMIT NUMBER	NUMBER OF NON-FATAL ACCIDENTS	WORKING DAYS LOST	FATAL ACCIDENTS
Mettiki Coal	DMI01,104,105	45	974	0
Allegheny Mining Corp.	277	1	43	0
Westvaco Res.	333	3	3	0

FOR CALENDAR YEAR 1987

Permit No.	1	The George's Creek Lumber Company*
Permit No.	2	Allegany Engineering Company*
Permit No.	3	B.M.W. Coal Company*
Permit No.	4	Old Hampshire Coal Company, Inc.*
Permit No.	5	Car and Gotfelty Construction Co.*
Permit No.	6	M.H. Bigan Coal Company*
Permit No.	7	Moran Coal Company*
Permit No.	8	Allegany Engineering Company*
Permit No.	9	Schell Mining Company, Inc.*
Permit No.	10	B & U Coal Company*
Permit No.	11	Morgan Contracting Company**
Permit No.	12	Romadale Coal Corporation*
Permit No.	13	Cross Fuel Company*
Permit No.	14	Highland Construction Company*
Permit No.	15	Phoenix Big Vein Coal Company (Repermitted 338)*
Permit No.	16	Moran Coal Company*
Permit No.	17	T.J. Cramblett**
Permit No.	18	Moscow-Georges Creek Coal Company*
Permit No.	19	J.R. Thrasher Contracting & Stripping Co.*
Permit No.	20	Moran Coal Company (Repermitted 333)*
Permit No.	21	Schell Mining Company, Inc.**
Permit No.	22	Savage Coal Company*
Permit No.	23	Moran Coal Company*
Permit No.	24	The Georges Creek Coal & Land Co.*
Permit No.	25	Charles T. Clise*
Permit No.	26	Allegany Engineering Company*
Permit No.	27	Goodwill Fuel Company*
Permit No.	28	D.B.&B. Coal Company*
Permit No.	29	Queen George's Creek Coal Company**
Permit No.	30	Mack Coal Company**
Permit No.	31	White Crest Coal Company, Inc.**
Permit No.	32	D.B.&B. Coal Company*
Permit No.	33	Moran Coal Company*
Permit No.	34	Chelsie A. Liller*
Permit No.	35	J.E. George Trucking Company**
Permit No.	36	D.B.&B. Coal Company*
Permit No.	37	J.&M. Coal Company**
Permit No.	38	Casey Construction Company**
Permit No.	39	Moran Coal Company*
Permit No.	40	Winner Bros. Coal Company, Inc.
Permit No.	41	Buffalo Coal Company, Inc.*
Permit No.	42	Casey Construction Company**
Permit No.	43	Sara-Ki Coal Company, Inc.*
Permit No.	44	Yantus & Zubek Coal Company*
Permit No.	45	Moran Coal Company*
Permit No.	46	Casey Construction Company**
Permit No.	47	Moran Coal Company*
Permit No.	48	Moran Coal Company*
Permit No.	49	Sara-Ki Coal Company, Inc.*
Permit No.	50	Laurel Creek Company, Inc.**
Permit No.	51	D.B.&B. Coal Company**
Permit No.	52	Moon and Sons*

Permit No. 53 George L. Smith Contracting Company\*  
 Permit No. 54 The Georges Creek Lumber Company\*  
 Permit No. 55 Moran Coal Company\*  
 Permit No. 56 North Branch Coal Corporation\*  
 Permit No. 57 George Coal Company\*\*  
 Permit No. 58 Samuel Compton & Company\*\*  
 Permit No. 59 Hoover & White\*  
 Permit No. 60 Laurel Creek Company, Inc.\*\*  
 Permit No. 61 The Eddy Fuel Company\*\*  
 Permit No. 62 J.R. Thrasher Contracting & Stripping Co.\*  
 Permit No. 63 Pittsburgh Coal Company\*  
 Permit No. 64 Mineral Coal Company, Inc., of West Virginia\*  
 Permit No. 65 Laurel Creek Company, Inc.\*  
 Permit No. 66 The Georges Creek Lumber Company\*  
 Permit No. 67 Chelsie A. Liller\*  
 Permit No. 68 Casey Contracting Company\*\*  
 Permit No. 69 Pine Mountain Coal Company\*  
 Permit No. 70 Opel and Brenneman\*  
 Permit No. 71 The Georges Creek Lumber Company\*  
 Permit No. 72 P.&J. Coal Company\*  
 Permit No. 73 Casey Contracting Company\*\*  
 Permit No. 74 Goodwill Fuel Company\*  
 Permit No. 75 D.B.&B. Coal Company\*  
 Permit No. 76 Baughman Contracting Company, Inc.\*  
 Permit No. 77 P&K Coal Company\*  
 Permit No. 78 Morgan Contracting Company\*  
 Permit No. 79 Buffalo Coal Company, Inc.\*  
 Permit No. 80 Buffalo Coal Company, Inc.\*  
 Permit No. 81 Randall Robertson\*  
 Permit No. 82 Hoover & White\*\*  
 Permit No. 83 James E. George\*  
 Permit No. 84 B.M.W. Coal Company, Inc.\*  
 Permit No. 85 Casey Contracting Company\*\*  
 Permit No. 86 Beener Coal Company\*  
 Permit No. 87 Moran Coal Company, Inc.\*  
 Permit No. 88 D&K Coal Company\*  
 Permit No. 89 Brenneman Brothers\*  
 Permit No. 90 Mack Coal Company\*  
 Permit No. 91 Clarence Rodamar\*  
 Permit No. 92 James E. George\*  
 Permit No. 93 Casey Contracting Company\*\*  
 Permit No. 94 Winner Brothers\*  
 Permit No. 95 Moran Coal Company, Inc.\*  
 Permit No. 96 Big Vein Coal Company\*  
 Permit No. 97 Maryland Fuel Company, Inc.\*  
 Permit No. 98 Yantus-Zubek Coal Company\*  
 Permit No. 99 J.R. Thrasher Contracting & Stripping Co.\*  
 Permit No. 100 Trefall Bros., Inc.\*  
 Permit No. 101 Mack Coal Comany\*  
 Permit No. 102 C.A. Liller Company\*  
 Permit No. 103 Cross & Brumage Coal Company\*  
 Permit No. 104 Beener Coal Company\*  
 Permit No. 105 D&K Coal Company\*  
 Permit No. 106 Mack Coal Company\*

Permit No. 107 Yantus and Zubek\*  
 Permit No. 108 Potomac Mining Company\*  
 Permit No. 109 Casey Contracting Company\*  
 Permit No. 110 Wilhelm Coal Company\*  
 Permit No. 111 The Georges Creek Lumber Company\*  
 Permit No. 112 Clark Coal Company\*  
 Permit No. 113 Casey Contracting Company\*  
 Permit No. 114 Casey Contracting Company\*  
 Permit No. 115 Douglas Coal Company\*  
 Permit No. 116 Red Lion Mining Corporation\*\*  
 Permit No. 117 Ebensburg Coal and Clay Company\*  
 Permit No. 118 James E. George\*  
 Permit No. 119 Ebensburg Coal and Clay Company\*  
 Permit No. 120 J.R. Thrasher Contracting & Stripping Co.\*  
 Permit No. 121 Moran Coal Company, Inc.\*  
 Permit No. 122 Buffalo Coal Company, Inc.\*  
 Permit No. 123 J.R. Thrasher Contracting & Stripping Co.\*  
 Permit No. 124 Win-More Mining & Construction Co., Inc.\*  
 Permit No. 125 Beener Coal Company\*  
 Permit No. 126 W.R. Nethken and Company, Inc.\*  
 Permit No. 127 Mack Coal Company\*  
 Permit No. 128 J.R. Thrasher Contracting & Stripping Co.\*  
 Permit No. 129 J. Russell Cravener\*  
 Permit No. 130 Chelsie A. Liller\*  
 Permit No. 131 The Georges Creek Lumber Company\*  
 Permit No. 132 Brenneman Brothers\*  
 Permit No. 133 W.R. Nethken and Company, Inc.\*  
 Permit No. 134 Richards and Parnell Coal Company\*  
 Permit No. 135 William Brashear\*  
 Permit No. 136 W.R. Nethken and Company, Inc.\*  
 Permit No. 137 G&S Coal Company, Inc.\*  
 Permit No. 138 J.R. Thrasher Contracting & Stripping Co.\*  
 Permit No. 139 J.R. Thrasher Contracting & Stripping Co.\*  
 Permit No. 140 Shallmar Coal Company, Inc.\*  
 Permit No. 141 Randall Robertson\*\*\*  
 Permit No. 142 Ace Drilling Coal Company, Inc.\*  
 Permit No. 143 Beener Coal Company  
 Permit No. 144 Clarence Rodamer\*  
 Permit No. 145 Ginniman Coal Company\*  
 Permit No. 146 Raymond A. Wolf Mining Company\*  
 Permit No. 147 Menallen Coke Company\*  
 Permit No. 148 Russel Shafer\*  
 Permit No. 149 Homage Coal Co. (Emmett Dupstadt)\*  
 Permit No. 150 Twin States Coal Company\*\*  
 Permit No. 151 M.F. Fetterolf Coal Company, Inc.\*  
 Permit No. 152 Ebensburg Coal and Clay Company\*\*  
 Permit No. 153 Raymond A. Wolf Mining Co. (UPRC)\*  
 Permit No. 154 Michael Rostosky\*  
 Permit No. 155 Ginniman & Ware Coal Company\*  
 Permit No. 156 Harold H. Upole Coal Company\*  
 Permit No. 157 T.G.&C. Coal Company, Inc.\*  
 Permit No. 158 Clarence Rodamer Coal Company\*  
 Permit No. 159 Michael Rostosky Coal Company\*  
 Permit No. 160 Russel Shafer Coal Company\*

Permit No. 161 Buffalo Coal Company, Inc.\*  
 Permit No. 162 J.R. Thrasher Contracting & Stripping Co.\*\*\*  
 Permit No. 163 Buffalo Coal Company, Inc.\*  
 Permit No. 164 Union Coal Company\*  
 Permit No. 165 Win-More Mining & Construction Co., Inc.\*  
 Permit No. 166 Ginniman Coal Company\*  
 Permit No. 167 Upperman Coal Company\*  
 Permit No. 168 Frank Pulford\*  
 Permit No. 169 Winner Bros. Coal Company, Inc.\*  
 Permit No. 170 Russel Shafer\*  
 Permit No. 171 The Chief Coal Company\*  
 Permit No. 172 Mary Ruth Corporation\*  
 Permit No. 173 Oakland Coal Company\*  
 Permit No. 174 Bernard C. Drees\*  
 Permit No. 175 Delta Mining, Inc.\*  
 Permit No. 176 D&K Coal Company, Inc.\*  
 Permit No. 177 T.G.&C. Coal Company, Inc.\*  
 Permit No. 178 Emmett Duppsstadt\*  
 Permit No. 179 Somerset Excavating, Inc.\*  
 Permit No. 180 Ayers Coal Company\*  
 Permit No. 181 Delta Mining, Inc.\*  
 Permit No. 182 K&J Development, Inc.  
 Permit No. 183 Chief Coal Company\*  
 Permit No. 184 Eckhart Coal Company  
 Permit No. 185 Bessemer Iron & Coal Company\*  
 Permit No. 186 Coal Lick Coal Company\*  
 Permit No. 187 Phillips Big Vein Coal Company\*  
 Permit No. 188 Ace Drilling Coal Company, Inc.\*  
 Permit No. 189 Buffalo Coal Company, Inc.\*  
 Permit No. 190 Buffalo Coal Company, Inc.\*  
 Permit No. 191 Keystone Coal and Development Company  
 (Liability Assumed by Garrett County  
 Roads Department)  
 Permit No. 192 Ace Drilling Company, Inc.\*  
 Permit No. 193 Wilhelm Coal, Inc.\*  
 Permit No. 194 M.F. Fetterolf Coal Company, Inc.\*\*\*  
 Permit No. 195 Buffalo Coal Company, Inc.\*  
 Permit No. 196 Besemer Iron & Coal Company\*  
 Permit No. 197 Grafton Coal Company\*  
 Permit No. 198 Jet Fuel Coal Company\*  
 Permit No. 199 Bessemer Iron & Coal Company  
 Permit No. 200 Chief Coal Company\*  
 Permit No. 201 Brashear Coal Company\*  
 Permit No. 202 Winner Bros. Coal Company, Inc.\*  
 Permit No. 203 Mary Ruth Corporation\*  
 Permit No. 204 Grafton Coal Company\*  
 Permit No. 205 Chief Coal Company\*  
 Permit No. 206 Upperman Coal Company\*  
 Permit No. 207 Winner Bros. Coal Company, Inc.  
 Permit No. 208 Sanner Bros. Coal Company\*  
 Permit No. 209 Delta Mining, Inc.\*  
 Permit No. 210 Markat, Inc.\*  
 Permit No. 211 Oakland Coal Company\*  
 Permit No. 212 Bessemer Iron & Coal Company\*



Permit No. 213 Clise Coal Company  
 Permit No. 214 Inter-State Lumber Company\*  
 Permit No. 215 Buffalo Coal Company, Inc.  
 Permit No. 216 Brashear Coal Company\*\*\*  
 Permit No. 217 Bernard Drees Coal Company\*  
 Permit No. 218 Buffalo Coal Company, Inc.\*  
 Permit No. 219 G&S Coal Company, Inc.\*  
 Permit No. 220 Evans Coal Company\*  
 Permit No. 221 Brideview Coal Company\*  
 Permit No. 222 John Duckworth Coal Company\*  
 Permit No. 223 Edward Mikel\*  
 Permit No. 224 Delta Mining, Inc.\*  
 Permit No. 225 Northwest Coal Company, Inc.\*  
 Permit No. 226 Thrasher Coal Company\*\*  
 Permit No. 227 Winner Bros. Coal Company, Inc.\*  
 Permit No. 228 Bittinger Coal Company\*  
 Permit No. 229 Charles M. Filsinger\*  
 Permit No. 230 G&H Coal Company, Inc.\*  
 Permit No. 231 Hi-Note, Inc.  
 Permit No. 232 Buffalo Coal Company, Inc.\*  
 Permit No. 233 Oliver Mining Company  
 Permit No. 234 Clise Coal Company  
 Permit No. 235 Markat, Inc.\*  
 Permit No. 236 Delta Mining, Inc.\*  
 Permit No. 237 Bridgeview Coal Company\*  
 Permit No. 238 Burnham Coal Company, Inc.\*  
 Permit No. 239 Highland Mining\*  
 Permit No. 240 Buffalo Coal Company, Inc.  
 Permit No. 241 Buffalo Coal Company, Inc.\*  
 Permit No. 242 Hopwood Strip Mine, Inc.\*\*  
 Permit No. 243 Ponderosa Coal Company, Inc.\*  
 Permit No. 244 Markat, Inc.\*  
 Permit No. 245 Phillips Coal, Inc.\*  
 Permit No. 246 Lambert Coal Company\*  
 Permit No. 247 Winner Bros. Coal Company, Inc.  
 Permit No. 248 Buffalo Coal Company, Inc.\*  
 Permit No. 249 Cobra Fuels\*  
 Permit No. 250 Laoc Coal Company\*  
 Permit No. 251 Tower Resources, Inc.\*  
 Permit No. 252 Phillips Coal, Inc.\*  
 Permit No. 253 Pine Mt. Coal Company\*  
 Permit No. 254 T.G.&C. Coal Company\*  
 Permit No. 255 Allegheny Mining Company\*  
 Permit No. 256 Bridgeview Coal Company\*  
 Permit No. 257 A&R Coal Company\*  
 Permit No. 258 Clinton Coal Company\*\*  
 Permit No. 259 Andalex Resources, Inc.\*  
 Permit No. 260 Yough Tree Farm\*  
 Permit No. 261 Russel Shafer\*\*\*  
 Permit No. 262 Northwest Coal Company\*\*  
 Permit No. 263 Allegheny Mining Corporation\*  
 Permit No. 264 Brashear Coal Company  
 Permit No. 265 Bittinger Coal Company  
 Permit No. 266 Delta Mining, Inc.\*

Permit No. 267 Bittering Coal Company\*  
 Permit No. 268 Clyde Marsh Coal Company  
 Permit No. 269 Hungry Hollow Coal Company\*  
 Permit No. 270 Clise Coal Company  
 Permit No. 271 A&R Coal Company\*  
 Permit No. 272 Action Mining, Inc.  
 Permit No. 273 Win-More Mining & Construction  
 Permit No. 274 Evans Coal Company\*  
 Permit No. 275 Buffalo Coal Company, Inc.\*  
 Permit No. 276 Buffalo Coal Company, Inc.  
 Permit No. 277 Allegheny Mining Corporation  
 Permit No. 278 Inter-State Lumber Company\*  
 Permit No. 279 Buffalo Coal Company, Inc.  
 Permit No. 280 Delta Mining, Inc.\*  
 Permit No. 281 Rondell Company\*  
 Permit No. 282 Phillips Coal, Inc.\*  
 Permit No. 283 G&H Coal Company, Inc.\*  
 Permit No. 284 Andalex Resources, Inc.\*  
 Permit No. 285 Clinton Coal Company\*\*  
 Permit No. 286 Winner Bros. Coal Company, Inc.  
 Permit No. 287 T.L. Moran, Inc.\*  
 Permit No. 288 Delta Mining, Inc.\*  
 Permit No. 289 Pine Mt. Coal Company\*  
 Permit No. 290 Delta Mining, Inc.\*  
 Permit No. 291 George Nolan\*\*  
 Permit No. 292 Alexander Coal Co.\*  
 Permit No. 293 Pine Mt. Coal Company\*  
 Permit No. 294 Arlen Miller\*\*\*  
 Permit No. 295 Action Mining, Inc.  
 Permit No. 296 Bessemer Iron & Coal Company  
 Permit No. 297 Oakland Coal Company  
 Permit No. 298 Bittering Coal Company  
 Permit No. 299 Inter-State Lumber, Inc.\*  
 Permit No. 300 Garbart Coal Company\*  
 Permit No. 301 Pine Mt. Coal Company\*  
 Permit No. 302 L.C. Coal Company, Inc.\*  
 Permit No. 303 Ginniman Brothers Coal Company\*\*  
 Permit No. 304 Buffalo Coal Company, Inc.\*  
 Permit No. 305 Wood Products, Inc.\*  
 Permit No. 306 Bridgeview Coal Company\*  
 Permit No. 307 T.L. Moran, Inc.\*  
 Permit No. 308 Best Coal Stripping, Inc.\*\*  
 Permit No. 309 Delta Mining, Inc.\*  
 Permit No. 310 Oakland Coal Company\*  
 Permit No. 311 Primrose Coal Company\*  
 Permit No. 312 R.A.K. Coal Company, Inc.\*\*  
 Permit No. 313 G&S Coal Company\*  
 Permit No. 314 Wilhelm Coal, Inc.  
 Permit No. 315 Clise Coal Company  
 Permit No. 316 Brawal Mining, Inc.\*  
 Permit No. 317 John R. Livingston\*\*  
 Permit No. 318 Winner Bros. Coal Company, Inc.  
 Permit No. 319 John Duckworth Coal Company\*  
 Permit No. 320 Kelley Enterprises\*

Permit No. 321 Delta Mining, Inc.\*  
 Permit No. 322 Bridgeview Coal Company\*  
 Permit No. 323 Ayers Coal Company  
 Permit No. 324 John Duckworth Coal Company  
 Permit No. 325 G&S Coal Company, Inc.  
 Permit No. 326 Buffalo Coal Company, Inc.  
 Permit No. 327 Buffalo Coal Company, Inc.\*  
 Permit No. 328 Buffalo Coal Company, Inc.  
 Permit No. 329 Winner Bros. Coal Company, Inc.  
 Permit No. 330 Inter-State Lumber Company\*  
 Permit No. 331 R.A.K. Coal Company\*\*\*  
 Permit No. 332 Seneca Mining Company\*  
 Permit No. 333 Westvaco Resources, Inc.  
 Permit No. 334 Buffalo Coal Company, Inc.  
 Permit No. 335 Inter-State Lumber Company  
 Permit No. 336 Inter-State Lumber Company\*  
 Permit No. 337 Commonwealth Coals, Inc.  
 Permit No. 338 Barton Mining Company, Inc.  
 Permit No. 339 Wilhelm Coal, Inc.\*  
 Permit No. 340 Fetterolf Mining, Inc.\*  
 Permit No. 341 Eastern Mining Systems, Inc.\*\*  
 Permit No. 342 Primrose Coal Company\*  
 Permit No. 343 L.C. Coal Company  
 Permit No. 344 Bridgeview Coal Company\*  
 Permit No. 345 Delta Mining, Inc.  
 Permit No. 346 Inter-State Lumber Company\*  
 Permit No. 347 Kelley Enterprises\*  
 Permit No. 348 Schwinabart & Green, Joint Venture  
 Permit No. 349 Wilhelm Coal, Inc.\*\*  
 Permit No. 350 Bridgeview Coal Company\*  
 Permit No. 351 Winner Bros. Coal Company, Inc.\*  
 Permit No. 352 John Duckworth Coal Company  
 Permit No. 353 Winner Bros. Coal Company, Inc.  
 Permit No. 354 Brawal Mining, Inc.\*  
 Permit No. 355 Hi-Note, Inc.  
 Permit No. 356 G&S Coal Company, Inc.\*\*\*  
 Permit No. 357 Richard Duckworth Coal Company  
 Permit No. 358 Bridgeview Coal Company\*  
 Permit No. 359 Buffalo Coal Company, Inc.  
 Permit No. 360 Buffalo Coal Company, Inc.  
 Permit No. 361 Pamela Mines, Inc.\*\*  
 Permit No. 362 Alpha Mining, Inc.  
 Permit No. 363 Pamela Mines, Inc.\*\*  
 Permit No. 364 John Duckworth Coal Company  
 Permit No. 365 G&S Coal Company, Inc.  
 Permit No. 366 Buffalo Coal Company, Inc.  
 Permit No. 367 Buffalo Coal Company, Inc.  
 Permit No. 368 Winner Bros. Coal Company, Inc.  
 Permit No. 369 Bittinger Coal Company  
 Permit No. 370 Keystone Mt. Development Company\*  
 Permit No. 371 Eagle Mining, Inc.  
 Permit No. 372 John Duckworth Coal Company  
 Permit No. 373 Commonwealth Coals, Inc.

Permit No. 374 Winner Bros. Coal Company, Inc.  
 Permit No. 375 Win-More Mining & Construction Company  
 Permit No. 376 Jones Coal, Inc.  
 Permit No. 377 Allegheny Mining Corporation  
 Permit No. 378 Delta Mining, Inc.  
 Permit No. 379 Masteller Coal Company  
 Permit No. 380 Fairview Coal Company (Repermitted 399)\*  
 Permit No. 381 Richard Duckworth Coal Company  
 Permit No. 382 Pine Mt. Coal Company  
 Permit No. 383 Allegheny Mining Corporation  
 Permit No. 384 Evans Coal Company\*  
 Permit No. 385 Jones Coal, Inc.  
 Permit No. 386 Jones Mining, Inc.  
 Permit No. 387 Hilltop Construction Company  
 Permit No. 388 Fetterolf Mining, Inc.\*\*\*  
 Permit No. 389 Andalex Resources, Inc.  
 Permit No. 390 C.J. Merlo, Inc.\*  
 Permit No. 391 Oak Springs Coal Company\*  
 Permit No. 392 Westvaco Resources, Inc.  
 Permit No. 393 K&J Development, Inc.  
 Permit No. 394 Action Mining, Inc.  
 Permit No. 395 Stan-Jan Excavating, Inc.\*  
 Permit No. 396 Allegheny Mining Corporation  
 Permit No. 397 Michael R. McGowan  
 Permit No. 398 Brashear Coal Company  
 Permit No. 399 Fairview Coal Company  
 Permit No. 400 Delta Mining, Inc.  
 Permit No. 401 Buffalo Coal Company, Inc.\*\*\*  
 Permit No. 402 Pine Mt. Coal Company  
 Permit No. 403 Delta Mining, Inc.  
 Permit No. 404 Clise Coal Company\*\*\*  
 Permit No. 405 Jones Coal, Inc.  
 Permit No. 406 Patriot Mining Company, Inc.  
 Permit No. 407 Jones Coal, Inc.\*\*\*  
 Permit No. 408 Tri Star Mining, Inc.\*\*\*  
 Permit No. 409 Buffalo Coal Company, Inc.  
 Permit No. 410 J. Walter Wassell  
 Permit No. 411 Jenkins Development Company  
 Permit No. 412 John Duckworth Coal Company

#### DEEP MINES

Permit DM 101 Mettiki Coal Corporation  
 Permit DM 102 Masteller Coal Company\*  
 Permit DM 103 Mt. Top Coal Company  
 Permit DM 104 Mettiki Coal Corporation  
 Permit DM 105 Mettiki Coal Corporation  
 Permit DM 106 A&J Coal Corporation\*\*  
 Permit DM 107 Masteller Coal Company

TIPPLES AND GOB FILES

Permit SC-83-101 Buffalo Coal Company  
Permit SC-83-102 Buffalo Coal Company  
Permit SC-83-103 Buffalo Coal Company  
Permit SC-83-104 Buffalo Coal Company  
Permit SC-83-105 Buffalo Coal Company\*\*\*  
Permit SC-83-106 Permit Not Issued  
Permit SC-83-107 Delta Coal Sales, Inc.  
Permit SC-83-108 Delta Coal Sales, Inc.  
Permit SC-83-109 Permit Not Issued  
Permit SC-83-110 Potomac Coal Company  
Permit SC-83-111 Westvaco Resources, Inc.  
Permit SC-83-112 Winner Bros. Coal Company  
Permit SC-83-113 Permit Not Issued  
Permit SC-83-114 Ever, Inc.  
Permit SC-83-115 Permit Not Issued  
Permit SC-87-116 John Duckworth Coal Company  
Permit SC-87-117 Clark Coal Company  
Permit SC-87-118 Black Diamond Energies, Inc.

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\* Operation Completed and Bond Released  
\*\* Forfeiture of Bond  
\*\*\* Not Activated