

CALENDAR YEAR 1985
SIXTY-THIRD ANNUAL REPORT
of the
MARYLAND BUREAU OF MINES

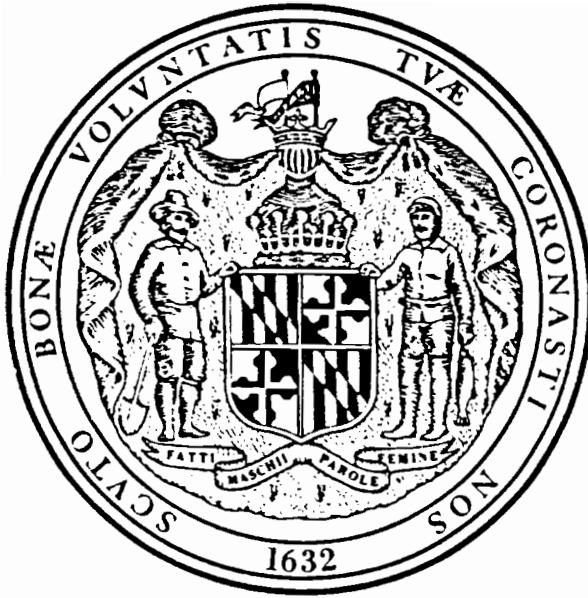


TO
HON. HARRY HUGHES
Governor of Maryland

DEPARTMENT OF NATURAL RESOURCES
TORREY C. BROWN, M.D., The Secretary

ENERGY ADMINISTRATION
PAUL MASSICOT, Administrator

From
MARYLAND BUREAU OF MINES
ANTHONY F. ABAR, Director



STATE OF MARYLAND

HARRY HUGHES
GOVERNOR

LOUIS L. GOLDSTEIN
COMPTROLLER OF THE TREASURY

WILLIAM S. JAMES
TREASURER

DEPARTMENT OF NATURAL RESOURCES

TORREY C. BROWN, M.D.
SECRETARY

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STATE OF MARYLAND
DEPT. OF NATURAL RESOURCES
ENERGY 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 1985

REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 1985 totalled 3,062,831.07 tons. Production for 1985 represents a decrease of 930,468.75 from the 1984 production of 3,993,299.82 tons.

SUMMARY OF 1985 STATISTICS¹

COAL PRODUCTION

Mining Method	Allegany County	Garrett County	Total	%
Strip	543,460.99	675,759.41	1,219,220.40	39.9
Deep	0	1,842,595.67	1,842,595.67	60.0
Auger	500.00	515.00	1,015.00	.1
TOTALS . .	543,960.99	2,518,870.08	3,062,831.07	100%

EMPLOYEES¹

Type of Mine	Allegany County	Garrett County	Total	Fatalities
Deep	0	419	419	0
Strip	201	187	388	0
TOTALS² . .	201	606	807	0

Allegany County shows a production of 2,706.27 net tons per man employed during 1985.

Garrett County shows a production of 4,156.55 net tons per man employed during 1985.

¹Reports submitted by Maryland mining operators.

²These figures do not include office, supervisory personnel or independent truck haulers.

FOR THE CALENDAR YEAR 1985

TONNAGE BY COAL SEAMS

Allegany County

Waynesburg	43,204.05
Sewickley (Tyson).	116,634.61
Redstone	52,489.80
Pittsburgh	212,435.89
Morantown.	20,728.27
L. Pittsburgh.	0
Franklin	41,576.25
Harlem	0
Bakerstown	17,335.95
Freeport	15,166.36
Kittanning	0
Barton	24,389.81
TOTAL	543,960.99

Garrett County

Sewickley.	13,633.00
Pittsburgh	148,085.59
Morantown.	0
L. Pittsburgh	98,640.00
Franklin	70,786.62
Barton	20,791.00
Elk Lick	9,961.15
Harlem	8,532.00
Bakerstown	146,390.08
Brush Creek.	0
Freeport	1,927,983.15
Kittanning	65,604.49
Redstone	8,463.00
TOTAL	2,518,870.08

TONNAGE BY BASIN

Lower Youghiogheny	108,869.05
Upper Youghiogheny	622.50
Casselman.	33,332.93
Casselman (Cherry Creek)	45,426.33
Potomac.	1,984,336.86
George's Creek	890,243.40
TOTAL	3,062,831.07

FOR CALENDAR YEAR 1985

Anthony F. Abar Director
Stephen M. Layton Energy Resources Officer III
Fred L. Bagley Energy Resources Officer III
Alan V. Hooker Energy Resources Officer II
Kenneth K. Eltschlager Energy Resources Officer I
(1/85-9/85)
Jeffrey S. McCombs Energy Resources Officer I
Joseph M. Ruperto Energy Resources Officer I
Richard A. Gardner Energy Resources Specialist III
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 Services Supervisor
Cathy A. Renner Stenographer Clerk I
Sallie A. Ricker. Office Secretary I
Mary Lynn Pegg Laboratory Scientist IV
Buford J. McDonald Conservation Associate IV

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1985
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	
Alpha Mining, Inc.	362	Pittsburgh	0	0	0		.00		0.0	4.0	4.0	0.0	0.0
Ayers Coal Co.	323	Franklin	2	146	972		798.00		1.0	1.0	1.0	0.0	0.0
Bessemer Iron & Coal	296	Bakerstown	5	114	2,805		5,354.00		0.0	0.0	0.0	0.0	0.0
Brashear Coal Mines	264	Pittsburgh Morantown Franklin	5	173	7,106		3,772.10 1,248.10 10,819.90		8.0	0.0	0.0	0.0	0.0
	398	Bakerstown	2	55	899		4,821.93		3.0	0.0	0.0	0.0	0.0
Buffalo Coal Co.	276	Pittsburgh	0	0	0		.00		0.0	3.0	3.0	0.0	0.0
	279	Pittsburgh	0	0	0		.00		0.0	0.0	0.0	0.0	52.0
	326	Pittsburgh	7	183	10,256		23,144.00		9.5	2.0	2.0	0.0	0.0
	328	Sewickley	4	160	5,546		17,001.00		4.0	8.0	15.0	0.0	0.0
	334	Franklin	0	0	0		.00		0.0	5.0	5.0	0.0	0.0
	359	Pittsburgh	2	15	240		221.00		0.0	0.0	0.0	0.0	0.0
	SC-83-104	Tipple	4	130	4,332				0.0	0.0	0.0	0.0	0.0
	SC-83-101	Tipple	2	183	2,760				0.0	0.0	0.0	0.0	0.0
Clise Coal Co.	213	Sewickley	8	88	5,784		9,685.57		3.0	10.0	10.0	5.0	5.0
	234	Sewickley	0	0	0		.00		0.0	0.0	0.0	0.0	0.0
	315	Sewickley	3	223	7,055		7,428.70		1.6	2.0	2.0	0.0	0.0
Commonwealth Coals	337	Morantown	0	0	0		.00		0.0	0.0	5.0	0.0	0.0
	373	Morantown	4	256	7,756		8,434.18		10.0	11.5	10.0	0.0	0.0
		Morantown	-	-	-		5,531.51		-	0.0	0.0	-	-
		Redstone	-	-	-		4,745.84		-	0.0	0.0	-	-

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1985
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	
Delta Coal Sales	SC-83-107	Tipple	7	260	7,622								
Delta Mining, Inc.	213	Sewickley	10	139	9,564		13,768.18		42.0	8.0	8.0	0.0	0.0
		Redstone	-	-	-		13,711.26		-	0.0	0.0	0.0	-
	Pittsburgh	-	-	-		21,713.68		-	-	0.0	0.0	-	-
	Morantown	-	-	-		4,434.55		-	-	4.0	4.0	-	-
270	403	Waynesburg	0	0	0		.00		0.0	0.0	0.0	0.0	0.0
		Sewickley	11	69	15,472		5,361.90		34.0	8.0	8.0	0.0	0.0
		Pittsburgh	-	-	-		15,314.75		-	-	0.0	0.0	-
Morantown	Redstone		-	-	-		3,388.49		-	4.0	4.0	-	-
			-	-	-		5,229.64		-	0.0	0.0	-	-
J. Duckworth Coal Co.	324	Pittsburgh	0	0	0		.00		0.0	0.0	0.0	0.0	0.0
	352	Pittsburgh	4	245	8,448		20,529.04		21.0	11.5	11.5	4.0	4.0
	372	Pittsburgh	2	207	3,312		2,499.39		11.0	4.0	4.0	0.0	0.0
R. Duckworth Coal Co.	357	Bakerstown	0	0	0		.00		0.0	0.0	0.0	4.0	4.0
	381	Bakerstown	2	245	3,920		7,160.02		9.0	3.0	3.0	0.0	0.0
Eagle Mining Inc.	371	Freeport	4	243	5,867		15,166.36		2.0	12.0	0.0	0.0	0.0
	378	Barton	4	266	8,764		21,098.86		37.0	15.0	10.0	0.0	0.0
Eckhart Coal Co.	184A	Franklin	2	149	2,324			500.00	0.5	2.0	0.0	0.0	0.0
Evans Coal Co.	384	Pittsburgh	1	41	276		.00		0.0	0.0	0.0	0.0	0.0
Ever, Inc.	SC-83-114	Gob Pile	0	0	0								

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1985
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	
Fairview Coal Co.	380	Pittsburgh	2	62	780		1,786.62		2.0	0.0	0.0	0.0	
		Morantown	-	-	-		174.50		-	0.0	0.0	-	
	399	Pittsburgh	2	89	1,374		3,329.62		4.0	0.0	0.0	0.0	
		Morantown	-	-	-		5.00		-	0.0	0.0	-	
Fetterolf Mining Inc.	340	Bakerstown	0	0	0		Complete		0.0	0.0	0.0	50.0	
	388	Kittanning	0	0	0		.00		0.0	0.0	0.0	0.0	
	231	Pittsburgh	2	44	591		295.35		0.0	7.0	6.0	8.1	
	355	Barton	3	122	6,079		3,290.95		12.1	4.0	4.0	0.0	
Jones Coal, Inc.	385	Waynesburg	4	228	7,680		33,425.05		16.5	18.0	18.0	0.0	
K & J Development, Inc.	182	Pittsburgh	6	81	4,118		2,956.53		7.4	0.0	0.0	0.0	
		Redstone	-	-	-		636.00		-	0.0	0.0	-	
	393	Morantown	8	163	10,430		1,793.29		17.8	0.0	0.0	0.0	
		Pittsburgh	-	-	-		3,062.79		-	0.0	0.0	-	
		Redstone	-	-	-		3,717.76		-	0.0	0.0	-	
Clyde Marsh Coal Co.	268	Redstone	1	5	40		.00		0.0	1.0	1.0	5.0	
Michael McGowan	397	Pittsburgh	2	36	987		2,441.47		1.0	0.0	0.0	0.0	
Oliver Mining Co.	233	Pittsburgh	7	252	18,999		5,643.00		0.0	11.0	11.0	0.0	
	338	Franklin	7	252	18,999		29,458.35		7.0	1.0	1.0	0.0	
T.G.&C. Coal Co.	286	Waynesburg Sewickley	1	5	40		19.00		0.0	0.0	0.0	0.0	
			-	-	-		457.51		-	0.0	0.0	-	

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1985
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
Tower Resources, Inc.	251	Sewickley	0	0	0		Complete		0.0	0.0	0.0	3.0
	284	Franklin	0	0	0		Complete		0.0	0.0	0.0	118.0
	389	Pittsburgh	3	244	6,127		6,093.20		34.0	0.0	0.0	0.0
		Morantown	-	-	-		2,927.32		-	0.0	0.0	-
		Redstone	-	-	-		13,410.94		-	0.0	0.0	-
	SC-83-110	Tipple	0	0	0							
Westvaco Resources	333	Pittsburgh	(See Garrett County)				6,423.00		4.0	0.0	0.0	0.0
Win-More Mining & Const.	273	Pittsburgh	4	167	4,244		4,337.27		1.0	0.0	0.0	0.0
		Redstone	-	-	-		7,314.40		-	0.0	0.0	-
		Morantown	-	-	-		936.81		-	0.0	0.0	-
	375	Sewickley	-	-	-		1,451.75		-	0.0	0.0	-
		Pittsburgh	4	70	1,780		2,528.90		0.0	0.0	0.0	0.0
		Redstone	-	-	-		1,433.96		-	0.0	0.0	-
		Morantown	-	-	-		288.70		-	0.0	0.0	-
Winner Bros. Coal Co.	40	Redstone	5	88	3,074		2,290.00		6.0	5.0	5.0	0.0
	202	Sewickley	0	0	0		Complete		0.0	0.0	0.0	69.0
	207	Sewickley	20	259	42,042		55,560.00		15.0	16.7	16.7	0.0
		Pittsburgh	-	0	0		58,590.00		-	0.0	0.0	-
	227	Waynesburg	0	0	0		Complete		0.0	0.0	0.0	26.0
	247	Pittsburgh	7	264	13,653		14,160.00		4.6	42.6	42.6	0.0
	318	Sewickley	4	176	6,680		5,920.00		6.3	0.0	0.0	0.0
	329	Redstone	0	0	0		.00		3.5	33.6	33.6	0.0
	353	Waynesburg	4	252	8,622		8,280.00		31.0	27.0	27.0	0.0
	368	Pittsburgh	4	110	3,147		5,160.00		18.5	0.0	0.0	0.0
	374	Waynesburg	3	44	1,252		1,480.00		0.0	12.7	12.7	0.0
SC-83-112	Tipple	3	39	456								
TOTAL ALLEGANY COUNTY			201	6,642	282,274	.00	543,460.99	500.00	388.3	297.6	288.1	344.1

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1985
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.	272	Kittanning	1	21	168		1,770.00		0.0	1.0	12.0	0.0
	295	Freeport	1	97	1,376		10,154.00		5.0	24.0	41.5	0.0
	295A	Freeport	-	-	-			515.00	-	0.0	0.0	-
	394	Harlem	2	116	1,520		8,532.00		29.0	0.0	0.0	0.0
Allegheny Mining Corp.	277	Freeport	13	117	18,720		37,431.00		16.8	16.5	20.0	0.0
Beener Coal Co.	143	Pittsburgh Franklin	21	236	40,444		95,351.76		38.3	23.9	23.9	0.0
							67,335.60		-	0.0	0.0	-
Bittinger Coal Co.	265	Bakerstown	3	165	1,950		5,903.61		0.0	0.0	0.0	0.0
	298	Freeport	-	-	-		1,838.57		-	0.0	0.0	-
Bridgeview Coal Co.	350	Kittanning	1	2	14		253.15		3.0	0.0	0.0	0.0
							Complete		0.0	0.0	0.0	55.0
Buffalo Coal Co., Inc.	215	Bakerstown	8	183	12,136		30,766.00		25.4	53.3	53.3	3.5
	240	Freeport	7	183	10,208		23,431.00		21.1	38.5	38.5	1.8
	360	Freeport	4	17	544		2,452.00		0.0	0.0	3.2	0.0
	366	Barton	5	102	3,848		12,808.00		3.0	18.0	18.0	0.0
	367	(in WV)										
	SC-83-102	Tipple	2	90	1,448							
SC-83-103	Tipple	2	183	2,725								
SC-83-105	Tipple	0	0	0								

area of mineral extraction is entirely in the State of West Virginia

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1985
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 SC-83-108	Bakerstown Tipple	4 0	208 0	3,453 0		2,917.93		24.0	4.0	4.0	0.0	
J. Duckworth Coal Co.	364	Bakerstown	2	133	1,968		5,345.74		1.6	0.0	0.0	0.0	
G&S Coal Co.	137 325 365	Kittanning Barton Freeport	0 2 10	0 161 238	0 2,576 19,040		Complete 7,983.00 26,382.00		0.0 5.0 5.0	0.0 11.0 40.0	0.0 11.0 9.6	36.0 0.0 0.0	
Hilltop Const.*	387	Freeport	6	145	1,533		9,320.19		0.0	0.0	0.0	0.0	
Inter-State Lumber Co.	330 335	Franklin Bakerstown	0 21	0 137	0 22,956		Complete 90,192.69		0.0 13.0	0.0 63.0	0.0 90.0	8.0 0.0	
Jones Coal, Inc.	376 386	Kittanning Kittanning	4 2	181 22	6,184 525		11,858.47 6,817.89		4.0 5.0	3.6 0.0	4.0 0.0	0.0 0.0	
L.C. Coal Co.	343	Bakerstown	1	1	8		491.65		5.5	16.0	16.0	0.0	
Masteller Coal Co.	379 DM107	Bakerstown Elk Lick	2 6	104 257	2,400 13,421		.00 9,961.15		0.0 0.0	53.0 0.0	53.0 0.0	0.0 0.0	
Mettiki Coal Corp.	DM101 DM104 DM105	Freeport Freeport Freeport	173 120 110	224 224 224	337,098 229,044 207,514		467,023.44 652,798.86 667,907.24		0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	
T.L. Moran Co.	287	Harlem	0	0	0		Complete		0.0	0.0	0.0	25.0	
Mt. Top Coal Co.	DM103	Kittanning	10	183	14,483		44,904.98		0.0	0.0	0.0	0.0	

*Not complete, as Annual Report information was not submitted by this company.

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1985
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	
Oakland Coal Co.	173	Bakerstown	0	0	0		Complete		0.0	0.0	0.0	18.6	
	297	Freeport	3	156	3,744		.00		1.6	12.5	12.5	0.0	
	377	Freeport	0	0	0		.00		0.0	17.8	19.4	0.0	
	383	Freeport	12	175	16,448		28,599.00		3.0	2.0	2.0	0.0	
Pine Mt. Coal Co.	289	Bakerstown	0	0	0		Complete		0.0	0.0	0.0	6.0	
	382	Franklin	1	149	1,824		3,416.02		6.0	7.0	7.0	0.0	
	402	Bakerstown	2	40	640		1,328.46		5.0	0.0	0.0	0.0	
Schwinabart & Green	348	Bakerstown	5	219	8,760		9,444.00		3.0	0.0	0.0	0.0	
Stan-Jan Excavating	395	Freeport	1	21	120		130.85		1.5	2.0	2.0	0.0	
Upperman Coal Co.	206	Bakerstown	0	0	0		Complete		0.0	0.0	0.0	30.0	
Westvaco Resources	333	L. Pittsburgh	35	252	73,180		98,640.00		79.0	118.0	118.0	0.0	
		Pittsburgh	-	-	-		24,763.00		-	16.0	16.0	-	
		Sewickley	-	-	-		13,633.00		-	0.0	0.0	-	
		Franklin	-	-	-		35.00		-	0.0	0.0	-	
		Redstone	-	-	-		8,463.00		-	0.0	0.0	-	
TOTAL GARRETT COUNTY	392	Pittsburgh	4	226	7,232		27,970.83		24.0	14.0	8.0	0.0	
			606	5,192	1,069,252		675,759.41		515.00	327.8	555.1	582.9	183.9
			201	6,642	282,274		543,460.99		500.00	388.3	297.6	288.1	344.1
TOTAL ALLEGANY COUNTY													
TOTAL BOTH COUNTIES			807	11,834	1,351,526		1,219,220.40		1,015.00	716.1	852.7	871.0	528.0

FOR CALENDAR YEAR 1985
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 1985
(By Geological Basin)

Table No. 1

	ACRES THIS YEAR*					Planted	Reveg Bond Release	Final Reports
	Approved By LRC	Permitted	Mined	Backfilled				
Allegany County:								
Georges Creek Basin	19.50	196.20	388.30	297.60	288.10	344.10	0	
Garrett County:								
Georges Creek Basin	18.00	18.00	153.90	178.90	172.90	6.00	1	
Potomac River Basin	36.00	44.00	64.10	246.10	220.50	89.90	3	
Casselman River Basin**	0	5.00	61.00	29.00	57.50	25.00	0	
Cherry Creek Basin**	0	5.00	19.80	16.50	20.00	0	0	
Upper Yough Basin	0	0	7.00	18.00	18.00	0	0	
Lower Yough Basin	0	9.00	22.00	66.60	94.00	63.00	1	
TOTAL GARRETT COUNTY	54.00	81.00	327.80	555.10	582.90	183.90	5	
TOTAL BOTH COUNTIES	73.50	277.20	716.10	852.70	871.00	528.00	5	

Table 2

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 1985

Allegany County:							
Georges Creek Basin	6,338.78	5,385.70	3,969.10	3,306.27	3,294.10	2,645.50	36
Garrett County:							
Georges Creek Basin	1,555.00	1,357.00	1,451.45	1,251.25	1,508.45	1,092.30	9
Potomac River Basin	2,778.20	2,619.00	1,760.30	2,012.00	2,193.90	2,139.60	23
Casselman River Basin**	1,602.30	1,289.60	983.00	1,059.50	941.20	769.00	20
Cherry Creek Basin**	574.00	667.00	640.70	502.90	469.80	408.75	8
Upper Yough Basin	253.00	216.00	157.35	185.35	159.30	190.90	4
Lower Yough Basin	1,142.50	1,253.00	851.00	1,078.06	1,014.16	751.40	27
TOTAL GARRETT COUNTY	7,905.00	7,401.60	5,843.80	6,089.06	6,286.81	5,351.95	91
TOTAL BOTH COUNTIES	14,243.78	12,787.30	9,812.90	9,395.33	9,580.91	7,997.45	127

*Where difference occurs between Approved and Permitted, either Permit was approved in 1984 and not issued until 1985, or Permit was not issued.

**Both Casselman Geological Basin.

Table No. 3

FOR CALENDAR YEAR 1985

SUMMARY OF MINING AND RECLAMATION STATISTICS

1975-1985

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	Cumulative Total
New Surface Mine Licenses Issued	20	12	13	9	8	6	10	8	13	5	8	112
New Surface Mine Permits Issued	37	19	25	20	7	19	0	11	12	7	6	163
New Deep Mine Permits Issued	0	0	1	5	0	0	0	1	0	0	0	7
A.M.&P.R.'s Processed	92	111	135	156	139	111	100	99	97	71	90	1,201
Amended Permits Processed	62	38	36	24	8	19	11	15	11	4	7	235
Forfeitures	0	0	0	1	4	5	1	0	0	3	1	15
Permits Completed and Planted	16	3	19	17	19	15	16	16	11	9	5	146
Site Evaluation Committee Days	23	28	32	23	22	25	22	31	25	28	20	279
Land Reclamation Committee Days	14	12	11	13	9	11	9	12	15	9	13	128

FOR THE CALENDAR YEAR 1985

LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 1985:

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:
Kenneth N. Weaver (Chairman), Maryland Geological Survey
Stephen M. Layton, Bureau of Mines
Paul Mateer, Forest, Park, and Wildlife Service
Edward Golden, Forest, Park, and Wildlife Service

DEPARTMENT OF HEALTH AND MENTAL HYGIENE REPRESENTATIVE:
Robert V. Creter, Office of Environmental Programs

CITIZENS' REPRESENTATIVES:
June Neder, Allegany County
Hugh Trimble, Garrett County (1/85-7/85)
Jessie McCullough, Garrett County (7/85-12/85)

COUNTY PLANNING & ZONING REPRESENTATIVES:
Tim Carney, Allegany County
Fran Pope, Garrett County (1/85-7/85)
Justin Thorne, Garrett County (7/85-12/85)

SOIL CONSERVATION DISTRICT REPRESENTATIVES:
Craig Hartsock, Allegany Soil Conservation District
Shaun Sanders, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:
John E. Carey
James M. Coffroth

Meetings

The Land Reclamation Committee meets at the Bureau of Mines' Office in Frostburg, Maryland. All meetings are open to the public and are announced in the Maryland Register and local papers.

Functions and Duties of the Committee:

The Land Reclamation Committee oversees land reclamation activities related to the surface mining of coal in Maryland. It is directed by statute (Annotated Code of Maryland, Natural Resources Article, §7-205/b/) to: "... study, recommend, and approve all procedures for reclamation, conservation and revegetation of any area affected by open pit mining within the State ..."

Section 7-507(c)(3) states the Committee may enter on any open pit operation to determine land reclamation conditions and progress. If the Committee finds any violations of the permit requirements it may order the Department to suspend the permit until corrective action is taken.

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 bond releases.

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 1985

REVEGETATION OF STRIP MINED LANDS

The State Land Reclamation Committee (LRC) voted to release 1,003 acres of reclaimed surface coal mined lands from a total of 1,429 acres eligible for revegetation bond release during 1985. This action was taken after consideration of 81 planting reports that were filed by 34 coals companies. The number of acres released was 70% of the number of acres eligible for release. This, compared to an average of 62% in past years, indicates better results were obtained in 1985 after a few years of below average performance.

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 167 acres.

The LRC also voted to reduce revegetation bond on 428.5 acres. This was the fourth year in which revegetation bond could be reduced, the result of a five year revegetation bond holding period which applies to all mining permits issued by the Bureau after July 1, 1979.

An amount of revegetation bond equal to one-half of the per acre rate for the revegetation bond may be released when:

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 requirement 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 their deficiencies repaired.

The revegetation bond remaining on an area may be released, and acreage may be released from the permit area, 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.

8. Any special reclamation requirements approved in the mining permit must be met.

9. Bond reductions are not considered before at least two growing seasons.

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 money after LRC approval.

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 advertisement and landowner notifications.)

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

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 under the authority of the Federal Surface Mining Control and Reclamation Act of 1977, (U.S. Public Law 95-87), and Natural Resources Article, 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 Natural Resources Article (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 Lands (AML) Reclamation Plan received Federal approval on July 16, 1982, thus enabling Maryland to receive and expend Federal funds for the reclamation of abandoned mine lands. During 1985, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provide \$1,482,955.00 for the reclamation of approximately 77 acres of abandoned mine lands in Allegany and Garrett Counties, Maryland.

AML Projects Under Construction During 1985

1. Blue Goose Road Reclamation Project
Location: Approximately 4 miles WNW of Friendsville,
 Garrett County.
Size: 15 acres.

Scope of Work: Backfill, regrade and revegetate abandoned coal spoil piles to reduce erosion runoff effects on Blue Goose Road.

Cost: \$47,960.00

Fund Source: Maryland-Federal AML Fund

2. Buckel Pit Reclamation Project

Location: Approximately 1 mile ESE of Bittinger, Garrett County.

Size: 12 acres.

Scope of Work: Backfill, regrade and revegetate an abandoned surface mine pit to eliminate a water impoundment and steep highwalls.

Cost: \$41,500.00

Fund Source: Maryland-Federal AML Fund

3. Casselman Deep Mine Project

Location: Approximately 3.5 miles SW of Grantsville, Garrett County.

Size: 1 acre.

Scope of Work: Eliminate three abandoned deep mine openings by backfilling, regrading and revegetation.

Cost: \$3,155.00

Fund Source: Maryland-Federal AML Funds

4. Meadow Lake Reclamation Project

Location: Approximately 3 miles ESE of Grantsville, Garrett County.

Size: 32 acres.

Scope of Work: Backfill, regrade and revegetate an abandoned surface mine pit to eliminate safety hazards and reduce acid pollution loading of Meadow Run.

Cost: \$118,000.00

Fund Source: Maryland-Federal AML Fund

5. Amish Road/Tarkiln Run Reclamation Project

Location: Approximately 3 miles SW of Grantsville,
Garrett County.

Size: 27 acres.

Scope of Work: Backfill, regrade and revegetate abandoned
surface mine pit to eliminate sediment and
acid mine drainage to North Branch Casselman
River, and eliminate the health and safety
hazards associated with highwall, pit, and
the unauthorized dumping of garbage into the
pit.

Cost: \$213,000.00

Fund Source: Federal RAMP Appropriation

6. Austin/Kelly Reclamation Project

Location: Approximately 2.6 miles ESE of Grantsville,
Garrett County, adjacent New Germany Road.

Size: 14 acres.

Scope of Work: Backfill, regrade and revegetate an abandoned
surface mine pit.

Cost: \$35,000.00

Fund Source: Maryland-Federal AML Fund.

Emergency Reclamation Projects -- Woodland Creek

One emergency abandoned mine problem was under construction during 1985 through the combined efforts of the Maryland Bureau of Mines and the Office of Surface Mining. The emergency problem arose as a result of a July 1, 1984 storm event which hit the Woodland Creek Watershed, Allegany County. Storm runoff impounded in an abandoned surface mine pit, subsequently breached, and sent a flood wave through an area of abandoned coal mine waste. This flood caused extensive damage to several residences in Klondike, MD.

The Office of Surface Mining awarded a contract totalling \$345,000.00 to restore the stream flow capacity of Woodland Creek and regrade the abandoned mine lands and coal mine waste areas adjacent the stream. Construction was completed in October, 1985.

Maryland Mine Reclamation Program

Utilizing monies from the Bituminous Coal Open-Pit Mining Reclamation Fund, (derived from a 9¢ per ton of coal mined surcharge) 25 acres of abandoned mine lands were reclaimed during 1985. Funding for these reclamation projects totalled \$30,000.00. Two stream channel lining projects were under construction during 1985. These projects were designed to reduce infiltration of surface stream water into underground mine workings and, thus, reduced mine drainage from abandoned underground mines. Funding for these mine drainage abatement projects was derived from the Mine Reclamation and Water Quality Restoration Loan and a grant from the Appalachian Regional Commission.

Projects Under Construction During 1985

1. Meadow Run Reclamation Project

Location: High Point, adjacent U.S. Route 219N,
approximately 3 1/2 miles ENE of Grantsville,
Garrett County.

Scope of Work: Backfill, regrade and revegetate abandoned
surface mine area.

Size: 10 acres.

Cost: \$12,000.00

Fund Source: BCMRF (Garrett County)

2. Walnut Bottom Reclamation Project

Location: Walnut Bottom, 1/2 mile S of MD Route 135, approximately 12 miles WSW of Westernport, MD.

Scope of Work: Backfill, regrade and revegetate abandoned surface mine area.

Size: 15 acres.

Cost: \$18,000.00

Fund Source: BCMRF (Garrett County)

3. Woodland Creek Stream Channel Lining Project

Location: Klondike, Allegany County.

Scope of Work: Placement of 1700 lineal feet of clay liner in the stream to reduce stream flow into underground deep mine workings (in conjunction with the OSM emergency stream restoration project on Woodland Creek - see above).

Size: 1700 lineal feet, 4 acres.

Cost: \$99,900.00

Fund Source: Mine Reclamation and Water Quality Restoration Loan.

4. Vale Run Stream Channel Lining Project

Location: Approximately 1½ miles SSE of Frostburg, Allegany County.

Scope of Work: Reconstruct Vale Run to reduce stream flow into underground deep mine working by placing 2700 lineal feet of clay channel lining in the reconstructed stream channel.

Size: 2700 lineal feet, 6½ acres.

Cost: \$147,218.00

Fund Source: Appalachian Regional Commission and Mine Reclamation and Water Quality Restoration Loan.

FOR CALENDAR YEAR 1985

DEEP MINE

MINE FOREMAN AND FIRE BOSS
EXAMINATIONS AND CERTIFICATIONS

The number of Mine Foremen and Fire Boss examinations conducted from 1974 through 1985 are identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
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
1975	0	0	0	0
1974	2	0	1	0

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

INSPECTION AND ENFORCEMENT ACTIVITIES

TOTAL INSPECTIONS:	Complete -	910
	Partial -	1,000
ENFORCEMENT ACTIONS:	Notices of Violation -	94
	Cessation Orders -	43
FORFEITURES - 1985: 1		

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
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	617,367.11
1982	2,085,157.75	3,459,891.66	0	5	2.39	0	0	2.39	1.44	0	691,978.33
1981	2,218,325.69	4,451,559.31	0	82	36.96	0	0	36.96	18.42	0	54,287.30
1980	2,089,982.5	3,760,092.25	0	61	29.18	0	0	29.18	16.22	-	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	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	10.9	N.A.	0	10.92	4.95	-	201,908.64
1976	1,287,997.5	2,695,178.96	0	4	3.10	N.A.	0	3.10	1.48	-	673,794.74
1975	981,372	2,520,765.27	1	5	5.09	1.01	.39	4.07	1.58	2,520,765.27	630,191.31
1974	697,707.5	2,221,412.94	1	0	N.A.	1.43	.45	0	0	2,221,412.94	N.A.
1973	541,210	1,754,130.93	0	3	5.54	0	0	5.54	1.71	1,754,130.93	584,710.31
1972	520,285	1,638,418.46	0	5	9.61	0	0	9.61	3.05	1,638,418.46	327,683.69
1971	806,056	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 1985

ACCIDENT REPORT

COMPANY	PERMIT NUMBER	NUMBER OF NON-FATAL ACCIDENTS	WORKING DAYS LOST	FATAL ACCIDENTS
Masteller Coal Co.	DM-107	2	4	0
Allegheny Mining	277	1	0	0
Mettiki Coal	DM-101	14	437	0
Mettiki Coal	DM-105	12	516	0
Westvaco Res.	333	1	93	0

FOR CALENDAR YEAR 1985

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 Duppstadt)*
 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 & G Sfyw Sf:ryclM AcsX%
 Permit No. 177 T.G.&C. Coal Company, Inc.*
 Permit No. 178 Emmett Duppstadt*
 Permit No. 179 Somerset Excavating, Inc.*
 Permit No. 180 Ayers Coal Company*
 Permit No. 181 Delta Mining, Inc.*
 Permit No. 182 C.J. Merlo, 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 Delta Mining, Inc.
 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 Tower 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 Delta Mining, Inc.
 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 Tower Resources, Inc.
 Permit No. 285 Clinton Coal Company**
 Permit No. 286 T.G.&C. Coal Company
 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 Oliver Mining Company
 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 Comany*
 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 Oakland Coal Company
 Permit No. 378 Eagle Mining, Inc.***
 Permit No. 379 Masteller Coal Company
 Permit No. 380 Fairview Coal Company
 Permit No. 381 Richard Duckworth Coal Company
 Permit No. 382 Pine Mt. Coal Company
 Permit No. 383 Oakland Coal Company
 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 Tower 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 C.J. Merlo, Inc.
 Permit No. 394 Action Mining, Inc.
 Permit No. 395 Stan-Jan Excavating, Inc.
 Permit No. 396 Oakland Coal Co.
 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.

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 PILES

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 Tower Resources, Inc.
 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

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