

CALENDAR YEAR 1990

SIXTY-EIGHTH ANNUAL REPORT

of the

MARYLAND BUREAU OF MINES



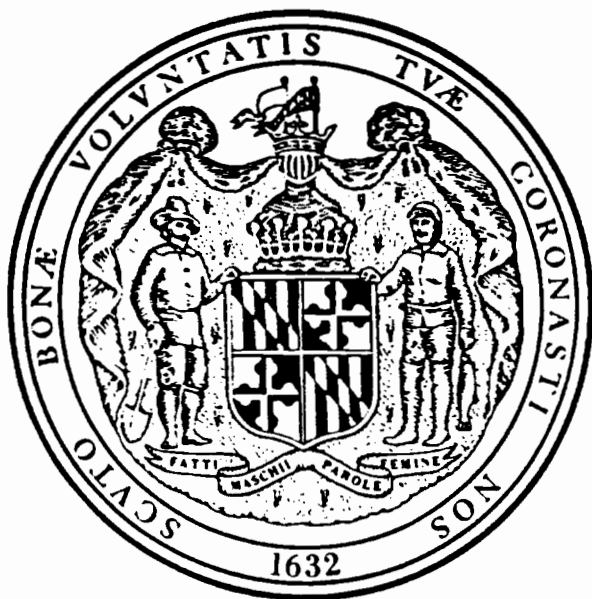
HON. WILLIAM DONALD SCHAEFER
Governor of Maryland

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

WATER RESOURCES ADMINISTRATION
CATHERINE PIEPER STEVENSON, Director

MARYLAND BUREAU OF MINES

ANTHONY F. ABAR, Director



STATE OF MARYLAND
WILLIAM DONALD SCHAEFER
GOVERNOR

LOUIS L. GOLDSTEIN
COMPTROLLER OF THE TREASURY

LUCILLE MAURER
TREASURER

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

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STATE OF MARYLAND
DEPARTMENT OF NATURAL RESOURCES
WATER RESOURCES ADMINISTRATION

TELEPHONE NO.
301/688-4138



89 HILL STREET
FROSTBURG, MARYLAND 21532

BUREAU OF MINES

INTRODUCTION

Maryland is rich in natural resources. The Department of Natural Resources, with the help of the people of Maryland, manages the protection, enhancement, and balanced use of our natural resources for present and future generations. As Secretary of the Maryland Department of Natural Resources, I am convinced that public support of DNR's mission is essential. 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 1990

REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 1990 totalled 3,513.638.20 tons. Production for 1990 represents an increase of 145,008.90 tons from the 1989 production of 3,368,629.30 tons.

SUMMARY OF 1990 STATISTICS¹

COAL PRODUCTION

Mining Method	Allegany County	Garrett County	Total	%
Strip	1,056,769.54	457,300.32	1,514,069.86	43.0
Deep	0	1,999,527.34	1,999,527.34	56.9
Auger	41.00	.00	41.00	.1
TOTALS	1,056,810.54	2,456,827.66	3,513,638.20	100%

EMPLOYEES²

Type of Mine	Allegany County	Garrett County	Total	Fatalities
Deep	0	326	326	1
Strip	247	105	352	1
TOTALS . .	247	431	678	2

Allegany County shows a production of 4,278.59 net tons per man employed during 1990.

Garrett County shows a production of 5,700.30 net tons per man employed during 1990.

¹Reports submitted by Maryland mining operators.

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

FOR THE CALENDAR YEAR 1990

TONNAGE BY COAL SEAMS

Allegheny County

Waynesburg.	51,830.94
Sewickley (Tyson)	260,287.76
Redstone.	271,560.24
Pittsburgh.	267,527.43
Morantown	62,403.92
L. Pittsburgh	41,303.50
Franklin.	101,896.75
Harlem.	0
Bakerstown.	0
Freeport.	0
Kittanning.	0
Federal Hill.	0
Barton.	0
TOTAL.	1,056,810.54

Garrett County

Sewickley	0
Pittsburgh.	73,142.56
Morantown	15,264.63
L. Pittsburgh	12,820.00
Franklin.	56,269.00
Barton.	82,419.94
Elk Lick.	0
Harlem.	24,665.91
Bakerstown.	70,264.15
Brush Creek	0
Freeport.	2,089,386.48
Kittanning.	3,658.61
Redstone.	28,936.38
TOTAL.	2,456,827.66

TONNAGE BY BASIN

Lower Youghiogheny.	33,623.30
Upper Youghiogheny.	0
Casselman	14,153.60
Casselman (Cherry Creek).	0
Potomac	2,198,111.09
George's Creek.	1,267,750.21
TOTAL.	3,513,638.20

HISTORICAL COAL PRODUCTION BY COUNTY AND TYPE OF MINING

YEAR	ALLEGANY CO.		GARRETT CO.		STATE TOTAL
	STRIP*	DEEP	STRIP*	DEEP	
1990	1,056,810.54	---	457,300.32	1,999,527.34	2,456,827.66
1989	867,025.49	---	675,160.16	1,826,443.65	2,501,603.81
1988	562,139.94	---	642,948.91	2,014,828.42	2,657,777.33
1987	790,903.09	---	810,166.55	2,332,554.30	3,142,720.85
1986	696,377.39	---	786,429.97	2,572,505.11	3,358,935.08
1985	543,960.99	---	676,274.41	1,842,595.67	2,518,870.08
1984	730,135.35	---	1,145,507.03	2,117,657.44	3,263,164.47
1983	568,716.82	---	981,550.36	1,536,568.39	2,518,118.75
1982	814,102.63	---	1,058,360.96	1,587,428.07	2,645,789.03
1981	1,275,576.42	---	1,272,911.65	1,9003,071.24	3,175,982.89
1980	1,122,817.48	---	1,143,643.80	1,493,630.97	2,637,274.77
1979	761,655.93	---	1,067,180.13	887,781.01	1,954,961.14
1978	1,082,370.39	---	1,389,078.89	379,872.61	1,768,951.50
1977	1,181,181.11	---	1,586,353.70	261,094.85	1,847,448.55
1976	972,234.87	---	1,547,928.09	175,016.00	1,722,944.09
1975	949,802.16	---	1,485,542.11	85,421.00	1,570,963.11
1974	707,380.56	---	1,423,836.38	90,196.00	1,514,032.38
1973	503,797.46	---	1,186,821.47	63,512.00	1,250,333.47
1972	519,980.00	---	983,007.74	135,320.61	1,118,438.35
1971	400,396.21	33,228.50	1,012,741.66	145,310.83	1,158,052.49

*Figure includes coal removed by the auger method.

CALENDAR YEAR 1990
COAL PRODUCTION, MINING, AND RECLAMATION STATISTICS¹

¹This table includes all permits on which there was production, mining, backfilling or planting activity. This table does not include permits on which all bonds have been released or forfeited; or permits on which bonds are still held but no production or mining or reclamation activity occurred.

ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)				Acres Affected	Acres Back-filled	Acres Planted
			Deep	Strip	Auger				
Barton Mining Co.	338	Franklin		67,628.15		7.0	8.0	8.0	
		Pittsburgh		21,607.63		-	-	-	
		L.Pittsburgh		40,482.50		-	-	-	
		Redstone		277.85		-	-	-	
		Morantown		15,043.82		-	-	-	
Black Diamond Energies, Inc.	182 393	Pittsburgh		.00		0.0	3.0	0.0	
		Redstone		9,527.45		2.0	0.0	0.0	
		Pittsburgh		9,358.26		-	-	-	
		Morantown		4,456.26		-	-	-	
Brashear Coal Mines	264 398	Pittsburgh		5,817.86		6.0	2.0	2.0	
		Franklin		34,227.60		-	-	-	
		Morantown		1,939.65		-	-	-	
		Bakerstown		.00		1.0	5.0	5.0	
Buffalo Coal Co.	326 328	Pittsburgh		27,945.05		6.0	8.0	8.0	
		Morantown		5,092.22		-	-	-	
		Redstone		14,538.82		-	-	-	
		Sewickley		10,660.64		14.0	9.0	9.0	
	359	Pittsburgh		6,725.83		-	-	-	
		Morantown		3,367.24		-	-	-	
		Pittsburgh		825.35		2.0	0.0	0.0	
		Redstone		1,344.53		-	-	-	

Name of Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)				Acres Back-filled	Acres Planted
			Deep	Strip	Auger	Acres Affected		
Clise Coal Co.	213	Waynesburg		16,460.39		3.0	0.0	0.0
	315	Sewickley		10,013.78		3.0	4.0	3.0
	404	Sewickley		.00		3.0	0.0	0.0
Commonwealth Coals, Inc.	337	Morantown		.00		0.0	2.0	2.0
Delta Mining, Inc.	378	Federal Hill		.00		0.0	12.0	9.0
	403	Redstone		24,106.39		0.0	5.5	5.5
		Pittsburgh		71,071.78		-	-	-
		Morantown		13,263.24		-	-	-
J. Duckworth Coal Co.	352	Pittsburgh		84.43		0.0	5.0	5.0
	372	Pittsburgh		4,976.59		2.0	0.0	0.0
Eckhart Coal Co.	184	Franklin			41.00	.2	0.0	0.0
Fairview Coal Co.	399	Pittsburgh		4,881.70		4.0	8.5	7.0
		Morantown		5,308.78		-	-	-
		Redstone		2,258.28		-	-	-
Jenkins Development Co.	411	Waynesburg		35,370.55		14.0	1.0	1.0
		Sewickley		18,753.81		-	-	-
Jones Coal, Inc.	385	Sewickley		4,780.58		1.0	0.0	0.0
	407	Pittsburgh		2,718.65		0.0	0.0	0.0
		Sewickley		4,025.13		-	-	-
		Redstone		17,370.14		-	-	-

Name of Operator	Permit Number	Coal Seam Worked	Deep	PRODUCTION (TONS)				Acres Back-filled	Acres Planted
				Strip	Auger	Acres Affected			
Marsh Coal Co.	268	Redstone		.00		0.0	2.0	2.0	
Phillips Mining, Inc.	389	Pittsburgh		21,134.77		22.0	4.0	0.0	
		Morantown		3,103.69		-	-	-	
		Redstone		75,521.06		-	-	-	
		Sewickley		22,666.45		-	-	-	
	414	Pittsburgh		15,068.31		9.0	0.0	0.0	
		Morantown		5,381.93		-	-	-	
		Redstone		22,738.54		-	-	-	
		Sewickley		423.93		-	-	-	
Westvaco Res., Inc.	333	Pittsburgh		6,899.00		(See Garrett County)			
		L. Pittsburgh		821.00					
Win-More Mining & Const.	273	Pittsburgh		1,596.10		0.0	0.0	0.0	
		Redstone		7,461.77		-	-	-	
		Sewickley		2,113.44		-	-	-	
		Pittsburgh		9,156.12		1.0	0.0	0.0	
		Redstone		1,815.44		-	-	-	
Winner Bros. Coal Co.	40	Morantown		2,756.89		-	-	-	
		Redstone		47,580.00		0.0	0.0	0.0	
		Pittsburgh		17,720.00		-	-	-	
		Morantown		3,680.00		-	-	-	
		Sewickley		51,550.00		3.0	20.0	20.0	
		Redstone		37,989.00		-	-	-	
		Pittsburgh		18,580.00		0.0	11.0	11.0	
		Sewickley		29,260.00		-	-	-	
		Redstone		7,060.00		-	-	-	
		Sewickley		98,020.00		0.0	0.0	0.0	
	318	Sewickley		17,020.00		9.0	0.0	0.0	

Name of Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)			Auger	Acres Affected	Acres Back-filled	Acres Planted
			Deep	Strip					
Winner Bros. Coal Co.	368	Pittsburgh Redstone		21,160.00		2.0	0.0	0.0	
	374	Sewickley		980.00	.00	0.0	18.0	18.0	
TOTAL ALLEGANY COUNTY				1,056,769.54		41.00	114.2	128.0	115.5

CALENDAR YEAR 1990
COAL PRODUCTION, MINING, AND RECLAMATION STATISTICS¹

¹This table includes all permits on which there was production, mining, backfilling or planting activity. This table does not include permits on which all bonds have been released or forfeited; or permits on which bonds are still held but no production or mining or reclamation activity occurred.

GARRETT COUNTY

Name of Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)				Acres Affected	Acres Back-filled	Acres Planted
			Deep	Strip	Auger				
Beener Coal Co.	143	Franklin		16,234.00		0.0	15.0	15.0	
Buffalo Coal	367 409	(In WV) Bakerstown		.00		5.0	0.0	0.0	
		Harlem		23,652.21		22.0	20.0	20.0	
	413	Pittsburgh		24,665.91		-	-	-	
		Redstone		56,329.56		14.0	1.0	1.0	
		Morantown		10,952.38		-	-	-	
				15,264.63		-	-	-	
G&S Coal Co.	325 365	Barton Freeport		7,824.61		7.0	0.0	0.0	
				59,894.45		9.0	0.0	0.0	
Jones Coal, Inc.	376 405	Freeport Kittanning		29,964.69		20.0	0.0	0.0	
				3,658.61		0.0	0.0	0.0	
Jones Mining, Inc.	386	Kittanning		.00		0.0	15.0	15.0	
Mettiki Coal Corp.	DM101	Freeport	1,999,527.34			0.0	0.0	0.0	
Patriot Mining Co., Inc.	406	Harlem Bakerstown	.00			0.0	82.0	82.0	

Name of Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)				Acres Affected	Acres Back-filled	Acres Planted
			Deep	Strip	Auger				
Pine Mt. Coal Co.	382	Bakerstown		14,424.59		6.0	0.0	0.0	
Schwinabart & Green	348	Bakerstown		14,153.60		6.0	11.0	8.0	
Tri Star Mining, Inc.	408 417	Barton Barton	.00 74,595.33			40.0 0.0	12.0 3.0	12.0 3.0	
Wassell, Walter	410	Bakerstown		18,033.75		7.0	0.0	0.0	
Westvaco Res., Inc.	333	Pittsburgh L. Pittsburgh Redstone Franklin		16,813.00 12,820.00 17,984.00 40,035.00		23.0 - - -	22.0 - - -	22.0 - - -	
TOTAL GARRETT COUNTY			1,999,527.34	457,300.32		159.0	181.0	178.0	
TOTAL ALLEGANY COUNTY			1,056,769.54	41.00		114.2	128.0	115.5	
TOTAL BOTH COUNTIES			1,999,527.34	1,514,069.86	41.00	273.20	309.0	293.5	

FOR CALENDAR YEAR 1990
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 1990
(By Geological Basin)

Table No. 1

	ACRES THIS YEAR*						Planted	Reveg Bond Release	Final Reports
	Approved By LRC	Permitted	Affected	Backfilled					
Allegheny County:									
Georges Creek Basin	0	25.00	114.20	128.00	115.50	167.10	1		
Garrett County:									
Georges Creek Basin	32.00	32.00	76.00	52.00	52.00	264.00	3		
Potomac River Basin	103.10	67.10	57.00	103.00	103.00	159.60	1		
Casselman River Basin**	0	0	6.00	11.00	8.00	81.30	0		
Cherry Creek Basin**	0	0	0	0	0	19.00	0		
Upper Yough Basin	78.5	0	0	0	0	0	0		
Lower Yough Basin	0	0	20.00	15.00	15.00	5.00	0		
TOTAL GARRETT COUNTY	213.60	99.10	159.00	181.00	178.00	528.90	3		
TOTAL BOTH COUNTIES	213.60	124.10	273.20	309.00	293.50	696.00	4		

Table 2

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 1990

Allegheny County:								
Georges Creek Basin	6,615.38	5,948.50	4,603.70	3,970.97	3,935.80	3,144.90	49	
Garrett County:								
Georges Creek Basin	2,004.00	1,871.00	1,901.45	1,672.85	1,940.05	1,502.60	15	
Potomac River Basin	3,450.90	3,379.00	2,687.30	2,971.80	3,095.70	2,553.00	31	
Casselman River Basin**	1,644.30	1,416.60	1,100.00	1,218.50	1,092.20	1,026.80	24	
Cherry Creek Basin**	589.00	667.00	671.50	554.90	521.80	572.95	9	
Upper Yough Basin	331.50	216.00	157.35	187.35	161.30	192.90	5	
Lower Yough Basin	1,302.50	1,335.00	909.00	1,103.06	1,039.16	846.40	27	
TOTAL GARRETT COUNTY	9,322.20	8,884.60	7,426.60	7,708.46	7,850.21	6,694.65	111	
TOTAL BOTH COUNTIES	15,937.58	14,833.10	12,030.30	11,679.43	11,786.01	9,839.55	160	

*Where difference occurs between Approved and Permitted, either Permit was approved in 1989 and not issued until 1990, or Permit was not issued.

**Both Casselman Geological Basin.

FOR CALENDAR YEAR 1990
 SUMMARY OF LICENSES, PERMITS, FORFEITURES, AND COMPLETIONS

Table No. 3

Year	New Surface Mine Licenses Issued	New Surface Mine Permits Processed	New Deep Mine Permits Processed	Amended Permits Processed	Forfeitures	Permits Completed
1990	2	3	1	3	1	3
1989	4	5	0	7	2	5
1988	2	1	0	1	2	6
1987	1	7	0	3	0	7
1986	4	6	0	1	1	11
1985	8	6	0	7	1	5
1984	5	7	0	4	3	9
1983	13	12	0	11	0	11
1982	8	11	1	15	0	16
1981	10	0	0	11	1	16
1980	6	19	0	19	5	15
1979	8	7	0	8	4	19
1978	9	20	5	24	1	17
1977	13	25	1	36	0	19
1976	12	19	0	38	0	3
Cumulative Total	105	148	8	188	21	162

FOR THE CALENDAR YEAR 1990
LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 1990:

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES;

Kenneth N. Weaver (Chairman), Maryland Geological Survey

Stephen M. Layton, Bureau of Mines

Ed Golden, Forest, Park, and Wildlife Service

Robert Webster, Forest, Park, and Wildlife Service

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVE:

Robert V. Creter, Hazardous and Solid Waste Management Administration

CITIZEN REPRESENTATIVES:

June Neder, Allegany County

Jessie McCullough, Garrett County

COUNTY PLANNING & ZONING REPRESENTATIVES:

Tim Carney, Allegany county

Margaret Jamison, Garrett County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Craig Hartsock, Allegany Soil Conservation District

Shaun Sanders, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

John Carey

Steve Shaffer (January 1, 1990 - July 1, 1990)

Jerry Duckett (July 1, 1990 - Present)

FOR THE CALENDAR YEAR 1990

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 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 reclamation plans;
2. Review and approval of revegetation prior to Phase II bond release.

During 1990, the Land Reclamation Committee met on seven days for hearings and conducted site evaluations on 15 days, including field reviews of 59 Annual Mining and Reclamation Progress Reports, seven abandoned mine land projects, five prospective mining permits, and 92 revegetation planting reports.

Other functions of the Land Reclamation Committee include:

1. Study and recommend any amendments to the strip mining law and regulations; and
2. Recommend to the Department the expenditure of funds for as much as 50% of the cost of lime, fertilizer, seed, mulch and trees for an approved mining and reclamation plan.
3. Review the Bureau's abandoned mine land and the Federal rural abandoned mine land projects.

FOR CALENDAR YEAR 1990

REVEGETATION OF STRIP MINED LANDS

The State Land Reclamation Committee (LRC) voted to approve the revegetation on 422 acres of reclaimed surface coal mined lands from a total of 593 acres eligible for Phase II bond release (reduction) during 1990. Also, the Bureau of Mines released Phase III (final) bond on 696 acres from a total of 909 eligible acres. This action was taken after consideration of 92 backfilling and planting reports that were filed by 28 coal companies.

All reclaimed acres were planted with a grass and legume mixture to insure adequate erosion control. In addition, trees and/or shrubs were planted on 163 acres that were reduced or released.

The mining law requires that a Backfilling and Planting report be submitted to the Bureau after planting is completed. When this report is signed by the mine inspector, the minimum bond holding period of five years begins. All reclaimed permit acres may have bonds reduced (Phase II) after two years, and total bond may be released (Phase III) after five years from the approved planting date. The criteria for Phase II release are:

1. 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;
2. 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 deficiencies are repaired.
3. With respect to prime farmlands, soil productivity has been returned to the level of yield required; and

4. Revegetation has been established in accordance with the approved reclamation plan and the following standards for success of revegetation are met:
 - a. Area must be 90% covered.
 - b. Area must be covered by at least 10% permanent legume, well distributed.
 - c. Bare areas must not exceed 900 square feet at any particular location. However, the overall coverage of 90% must be obtained.
 - d. There must not be any depressions or rills and gullies over nine inches in depth in the revegetated area.
 - e. There must not be any seeps discharging toxic water that cause degradation of the vegetation growing on the area.
 - f. There must not be any permit suspension/revocation, bond forfeiture, or other enforcement action pending on the permit area.
 - g. A minimum of 450 living stems per acre, well distributed, is required when trees and shrubs are planted.
 - h. Any special reclamation requirements approved in the mining permit must be met.

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 revegetation are questionable . The Bureau of Mines can only release Phase II bonds after LRC approval of the revegetation.

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

Bond monies cannot be returned until the permittee submits a complete application for bond release to the Bureau. A complete

application for bond release must contain the following: (1) three copies of a map (scale 1"-500) showing the area covered by the bond release application, and (2) three copies of certified letters sent to (a) surface property owners, (b) adjoining surface property owner(s), (c) local government bodies, (d) planning agencies, and (e) sewage and water treatment authorities or companies in the locality of the permit area, notifying them of the operator's intent to apply for bond release. Also, the operator must advertise in a newspaper of general circulation in the county where the permit area is located at least once a week for four consecutive weeks. The operator must submit proof of advertisement to the Bureau within 30 days after filing an application for bond release.

The Bureau, within 30 days after receiving a complete application, must notify the surface owner(s), his agent or lessee and the permittee of a time and date for a site inspection.

If, after the site inspection, an informal conference is requested, the Bureau shall (a) schedule the conference and notify all parties involved, (b) publish notice of the conference in the newspaper at least two weeks before the date of the conference, (c) set a date for a site inspection by any party to the conference, and (d) hold the conference within 30 days from the date of the newspaper notice. If a conference is held, the Bureau, within 30 days, shall notify the permittee, participants, landowner(s) and interested parties of its decision.

However, if a conference is not held, the Bureau shall notify the permittee, participants, landowner(s) and interested parties of its decision within 60 days of receipt of a complete bond release application or within 30 days from the close of the comment period in the applicant's advertisement, whichever is greater. The Bureau's decision shall state reasons for its conclusions, recommend any corrective action(s) necessary and indicate requirements for requesting an adjudicatory hearing.

If an adjudicatory hearing is requested, the Bureau may not release bond until a final decision is made.

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

FOR CALENDAR YEAR 1990

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 (BCOPMRF) 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 1990, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provide \$998,351 for the reclamation of abandoned mine lands. Approximately 38 acres of abandoned mine lands in Allegany and Garrett Counties, Maryland were under construction during the 1990 calendar year.

Projects Under Construction During 1990

1. Koontz Coal-Buffalo Reclamation Project
Location: Approximately 2 miles W of Lonaconing, Allegany County.
Size: Approximately 10 acres
Scope of Work: Backfill, regrade and revegetate abandoned surface mine spoil adjacent to active mining permit.
Cost: \$99,875.50
Fund Source: Maryland-Federal AML Fund

2. **Staub Run Pollution Abatement Project - Phase III**
 Location: Approximately 2.5 miles S of Frostburg, Allegany County.
 Size: 6.2 acres.
 Scope of Work: Reduce stream flow into underground deep mine workings by injecting polyurethane grout below 2,450 lineal feet of streambed to seal the stream channel.
 Cost: \$97,560
 Fund Source: OSM Administered ARC Funds

3. **Eckhart Gob Pile Reclamation Project**
 Location: Eckhart, Allegany County.
 Size: Approximately 8 acres
 Scope of Work: Removal of approximately 140,000 cubic yards of coal refuse materials, removal of deteriorated drainage tunnel, placement of drainage control channels, and revegetation of all disturbed areas to eliminate safety hazards associated with the site.
 Cost: \$519,640
 Fund Source: Maryland-Federal AML Fund

4. **Hill Run Reclamation Project**
 Location: Immediately NE of Lonaconing, Allegany County.
 Size: Approximately 6 acres
 Scope of Work: Removal of approximately 3,980 cubic yards of coal refuse material, and backfill, regrade and revegetate abandoned surface mine spoil.
 Cost: \$71,671
 Fund Source: Maryland - Federal AML Fund

5. **Austin Kelly Phase III Abandoned Mine Reclamation**
 Location: Approximately 2.6 miles SE of Grantsville, Garrett County.
 Size: Approximately 3 acres
 Scope of Work: Excavate, regrade, and revegetate abandoned surface mine spoil in conjunction with an active mining permit.
 Cost: \$37,591
 Fund Source: Maryland - Federal AML Fund

6. **Michael's Run Reclamation Project**
 Location: 1 mile W of Barton, Garrett County.
 Size: Approximately 3 acres
 Scope of Work: Removal of approximately 9,100 cubic yards of coal refuse material, control of deep mine drainage, construction of a mine drainage treatment structure, and slope stabilization utilizing gabions and rock toe buttresses.
 Cost: \$119,849.99
 Fund Source: Maryland - Federal AML Fund

7. **Lostland Run Coal Waste Stabilization Project**
Location: 7.3 miles SE of Loch Lynn, Garrett County.
Size: Approximately 2 acres
Scope of Work: Removal of approximately 7,200 cubic yards of coal refuse material, construction of streambank armorment, and installation of one deep mine seal.
Cost: \$73,435
Fund Source: Maryland - Federal AML Fund

FOR CALENDAR YEAR 1990

MINE FOREMAN AND FIRE BOSS
EXAMINATION AND CERTIFICATIONS

The number of Mine Foremen and Fire Boss applicants examined and certified from 1976 through 1990 are identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
1990	19	4	18	4
1989	0	0	25*	0
1988	15	0	11	0
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
1986-1990

TYPE OF ACTION	1986	1987	1988	1989	1990
Inspections	1873	1728	1667	1653	1658
Notices of Violations	84	35	39	54	33
Cessation Orders	25	21	20	19	14
Citizen Complaints	19	37	9	15	19
Bond Forfeitures	1	0	1	2	1

FOR THE CALENDAR YEAR 1989

ACCIDENT REPORT

COMPANY	PERMIT NUMBER	NUMBER OF NON-FATAL ACCIDENTS	WORKING DAYS LOST	FATAL ACCIDENTS
Mettiki Coal	DM101,104,105	81	1,740	1
Barton Mining Co.	338	0	0	1
Phillips Mining, Inc.	389	1	119	0
Winner Bros. Coal Co.	207	1	59	0

MINING PERMITS ISSUED BY YEAR AND PERMITTEE

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
1	1955	The George's Creek Lumber Company*
2	1955	Allegany Engineering Company*
3	1955	B.M.W. Coal Company*
4	1955	Old Hampshire Coal Company, Inc.*
5	1955	Car and Gotfelty Construction Co.*
6	1955	M.H. Bigan Coal Company*
7	1955	Moran Coal Company*
8	1955	Allegany Engineering Company*
9	1955	Schell Mining Company, Inc.*
10	1955	B & U Coal Company*
11	1955	Morgan Contracting Company**
12	1955	Romadale Coal Corporation*
13	1955	Cross Fuel Company*
14	1955	Highland Construction Company*
15	1955	Phoenix Big Vein Coal Company (Repermitted 338)*
16	1955	Moran Coal Company*
17	1955	T.J. Cramblett**
18	1955	Moscow-Georges Creek Coal Company*
19	1955	J.R. Thrasher Contracting & Stripping Co.*
20	1956	Moran Coal Company (Repermitted 333)*
21	1956	Schell Mining Company, Inc.**
22	1956	Savage Coal Company*
23	1956	Moran Coal Company*
24	1956	The Georges Creek Coal & Land Co.*
25	1957	Charles T. Clise*
26	1957	Allegany Engineering Company*
27	1957	Goodwill Fuel Company*
28	1957	D.B.&B. Coal Company*
29	1957	Queen George's Creek Coal Company**
30	1957	Mack Coal Company**
31	1957	White Crest Coal Company, Inc.**
32	1957	D.B.&B. Coal Company*
33	1957	Moran Coal Company*
34	1957	Chelsie A. Liller*
35	1957	J.E. George Trucking Company**
36	1957	D.B.&B. Coal Company*
37	1957	J.&M. Coal Company**
38	1957	Casey Construction Company**
39	1958	Moran Coal Company*
40	1958	Winner Bros. Coal Company, Inc.
41	1958	Buffalo Coal Company, Inc.*
42	1958	Casey Construction Company**
43	1958	Sara-Ki Coal Company, Inc.*
44	1958	Yantus & Zubek Coal Company*
45	1958	Moran Coal Company*
46	1958	Casey Construction Company**
47	1958	Moran Coal Company*
48	1958	Moran Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
49	1958	Sara-Ki Coal Company, Inc.*
50	1958	Laurel Creek Company, Inc.**
51	1958	D.B.&B. Coal Company**
52	1958	Moon and Sons*
53	1959	George L. Smith Contracting Company*
54	1959	The Georges Creek Lumber Company*
55	1959	Moran Coal Company*
56	1959	North Branch Coal Corporation*
57	1959	George Coal Company**
58	1959	Samuel Compton & Company**
59	1959	Hoover & White*
60	1959	Laurel Creek Company, Inc.**
61	1959	The Eddy Fuel Company**
62	1959	J.R. Thrasher Contracting & Stripping Co.*
63	1959	Pittsburgh Coal Company*
64	1959	Mineral Coal Company, Inc., of West Virginia*
65	1959	Laurel Creek Company, Inc.*
66	1959	The Georges Creek Lumber Company*
67	1959	Chelsie A. Liller*
68	1959	Casey Contracting Company**
69	1959	Pine Mountain Coal Company*
70	1959	Opel and Brenneman*
71	1959	The Georges Creek Lumber Company*
72	1959	P.&J. Coal Company*
73	1959	Casey Contracting Company**
74	1959	Goodwill Fuel Company*
75	1959	D.B.&B. Coal Company*
76	1960	Baughman Contracting Company, Inc.*
77	1960	P&K Coal Company*
78	1960	Morgan Contracting Company*
79	1960	Buffalo Coal Company, Inc.*
80	1960	Buffalo Coal Company, Inc.*
81	1960	Randall Robertson*
82	1960	Hoover & White**
83	1960	James E. George*
84	1960	B.M.W. Coal Company, Inc.*
85	1960	Casey Contracting Company**
86	1960	Beener Coal Company*
87	1960	Moran Coal Company, Inc.*
88	1960	D&K Coal Company*
89	1960	Brenneman Brothers*
90	1960	Mack Coal Company*
91	1960	Clarence Rodamar*
92	1960	James E. George*
93	1961	Casey Contracting Company**
94	1961	Winner Brothers*
95	1961	Moran Coal Company, Inc.*
96	1961	Big Vein Coal Company*
97	1961	Maryland Fuel Company, Inc.*
98	1961	Yantus-Zubek Coal Company*
99	1961	J.R. Thrasher Contracting & Stripping Co.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
100	1961	Trefall Bros., Inc.*
101	1961	Mack Coal Comany*
102	1961	C.A. Liller Company*
103	1961	Cross & Brumage Coal Company*
104	1961	Beener Coal Company*
105	1961	D&K Coal Company*
106	1961	Mack Coal Company*
107	1961	Yantus and Zubek*
108	1961	Potomac Mining Company*
109	1962	Casey Contracting Company*
110	1962	Wilhelm Coal Company*
111	1962	The Georges Creek Lumber Company*
112	1962	Clark Coal Company*
113	1962	Casey Contracting Company*
114	1962	Casey Contracting Company*
115	1962	Douglas Coal Company*
116	1962	Red Lion Mining Corporation**
117	1962	Ebensburg Coal and Clay Company*
118	1963	James E. George*
119	1963	Ebensburg Coal and Clay Company*
120	1963	J.R. Thrasher Contracting & Stripping Co.*
121	1963	Moran Coal Company, Inc.*
122	1963	Buffalo Coal Company, Inc.*
123	1963	J.R. Thrasher Contracting & Stripping Co.*
124	1963	Win-More Mining & Construction Co., Inc.*
125	1963	Beener Coal Company*
126	1964	W.R. Nethken and Company, Inc.*
127	1964	Mack Coal Company*
128	1964	J.R. Thrasher Contracting & Stripping Co.*
129	1964	J. Russell Cravener*
130	1964	Chelsie A. Liller*
131	1964	The Georges Creek Lumber Company*
132	1964	Brenneman Brothers*
133	1965	W.R. Nethken and Company, Inc.*
134	1965	Richards and Parnell Coal Company*
135	1965	William Brashear*
136	1965	W.R. Nethken and Company, Inc.*
137	1965	G&S Coal Company, Inc.*
138	1966	J.R. Thrasher Contracting & Stripping Co.*
139	1966	J.R. Thrasher Contracting & Stripping Co.*
140	1966	Shallmar Coal Company, Inc.*
141	1966	Randall Robertson***
142	1966	Ace Drilling Coal Company, Inc.*
143	1966	Beener Coal Company
144	1966	Clarence Rodamer*
145	1967	Ginniman Coal Company*
146	1967	Raymond A. Wolf Mining Company*
147	1967	Menallen Coke Company*
148	1967	Russel Shafer*
149	1967	Homage Coal Co. (Emmett Duppstadt)*
150	1967	Twin States Coal Company**

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
151	1967	M.F. Fetterolf Coal Company, Inc.*
152	1967	Ebensburg Coal and Clay Company*
153	1968	Raymond A. Wolf Mining Co. (UPRC)*
154	1968	Michael Rostosky*
155	1968	Ginniman & Ware Coal Company*
156	1968	Harold H. Upole Coal Company*
157	1968	T.G.&C. Coal Company, Inc.*
158	1969	Clarence Rodamer Coal Company*
159	1969	Michael Rostosky Coal Company*
160	1969	Russel Shafer Coal Company*
161	1969	Buffalo Coal Company, Inc.*
162	1969	J.R. Thrasher Contracting & Stripping Co.***
163	1969	Buffalo Coal Company, Inc.*
164	1969	Union Coal Company*
165	1970	Win-More Mining & Construction Co., Inc.*
166	1970	Ginniman Coal Company*
167	1970	Upperman Coal Company*
168	1970	Frank Pulford**
169	1970	Winner Bros. Coal Company, Inc.*
170	1970	Russel Shafer*
171	1970	The Chief Coal Company*
172	1970	Mary Ruth Corporation*
173	1970	Oakland Coal Company*
174	1971	Bernard C. Drees*
175	1971	Delta Mining, Inc.*
176	1971	D&K Coal Company, Inc.*
177	1971	T.G.&C. Coal Company, Inc.*
178	1971	Emmett Duppstadt*
179	1971	Somerset Excavating, Inc.*
180	1971	Ayers Coal Company*
181	1971	Delta Mining, Inc.*
182	1971	Patriot Mining Company, Inc.
183	1971	Chief Coal Company*
184	1971	Eckhart Coal Company
185	1971	Bessemer Iron & Coal Company*
186	1971	Coal Lick Coal Company*
187	1971	Phillips Big Vein Coal Company*
188	1971	Ace Drilling Coal Company, Inc.*
189	1971	Buffalo Coal Company, Inc.*
190	1971	Buffalo Coal Company, Inc.*
191	1971	Keystone Coal and Development Company (Liability Assumed by Garrett County Roads Department)
192	1971	Ace Drilling Company, Inc.*
193	1972	Wilhelm Coal, Inc.*
194	1972	M.F. Fetterolf Coal Company, Inc.***
195	1972	Buffalo Coal Company, Inc.*
196	1972	Besemer Iron & Coal Company*
197	1972	Grafton Coal Company*
198	1972	Jet Fuel Coal Company*
199	1972	Bessemer Iron & Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
200	1972	Chief Coal Company*
201	1972	Brashear Coal Company*
202	1972	Winner Bros. Coal Company, Inc.*
203	1972	Mary Ruth Corporation*
204	1972	Grafton Coal Company*
205	1972	Chief Coal Company*
206	1972	Upperman Coal Company*
207	1972	Winner Bros. Coal Company, Inc.
208	1973	Sanner Bros. Coal Company*
209	1973	Delta Mining, Inc.*
210	1973	Markat, Inc.*
211	1973	Oakland Coal Company*
212	1973	Bessemer Iron & Coal Company*
213	1973	Clise Coal Company
214	1973	Inter-State Lumber Company*
215	1973	Buffalo Coal Company, Inc.
216	1973	Brashear Coal Company***
217	1973	Bernard Drees Coal Company*
218	1973	Buffalo Coal Company, Inc.*
219	1973	G&S Coal Company, Inc.*
220	1974	Evans Coal Company*
221	1974	Brideview Coal Company*
222	1974	John Duckworth Coal Company*
223	1974	Edward Mikel*
224	1974	Delta Mining, Inc.*
225	1974	Northwest Coal Company, Inc.*
226	1974	Thrasher Coal Company**
227	1974	Winner Bros. Coal Company, Inc.*
228	1974	Bittinger Coal Company*
229	1974	Charles M. Filsinger*
230	1974	G&H Coal Company, Inc.*
231	1974	Hi-Note, Inc.
232	1974	Buffalo Coal Company, Inc.*
233	1974	Oliver Mining Company**
234	1974	Clise Coal Company
235	1974	Markat, Inc.*
236	1974	Delta Mining, Inc.*
237	1974	Bridgeview Coal Company*
238	1974	Burnham Coal Company, Inc.*
239	1974	Highland Mining*
240	1974	Buffalo Coal Company, Inc.
241	1975	Buffalo Coal Company, Inc.*
242	1975	Hopwood Strip Mine, Inc.**
243	1975	Ponderosa Coal Company, Inc.*
244	1975	Markat, Inc.*
245	1975	Phillips Coal, Inc.*
246	1975	Lambert Coal Company*
247	1975	Winner Bros. Coal Company, Inc.
248	1975	Buffalo Coal Company, Inc.*
249	1975	Cobra Fuels*
250	1975	Laoc Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
251	1975	Tower Resources, Inc.*
252	1975	Phillips Coal, Inc.*
253	1975	Pine Mt. Coal Company*
254	1975	T.G.&C. Coal Company*
255	1975	Allegheny Mining Company*
256	1975	Bridgeview Coal Company*
257	1975	A&R Coal Company*
258	1975	Clinton Coal Company**
259	1975	Tower Resources, Inc.*
260	1975	Yough Tree Farm*
261	1975	Russel Shafer***
262	1975	Northwest Coal Company**
263	1975	Allegheny Mining Corporation*
264	1975	Brashear Coal Company
265	1975	Bittinger Coal Company
266	1975	Delta Mining, Inc.*
267	1975	Bittinger Coal Company*
268	1975	Clyde Marsh Coal Company
269	1975	Hungry Hollow Coal Company*
270	1975	Clise Coal Company
271	1975	A&R Coal Company*
272	1975	Action Mining, Inc.*
273	1975	Win-More Mining & Construction
274	1975	Evans Coal Company*
275	1975	Buffalo Coal Company, Inc.*
276	1975	Buffalo Coal Company, Inc.
277	1975	Allegheny Mining Corporation
278	1976	Inter-State Lumber Company*
279	1976	Buffalo Coal Company, Inc.*
280	1976	Delta Mining, Inc.*
281	1976	Rondell Company*
282	1976	Phillips Coal, Inc.*
283	1976	G&H Coal Company, Inc.*
284	1976	Tower Resources, Inc.*
285	1976	Clinton Coal Company**
286	1976	Winner Bros. Coal Company, Inc.
287	1976	T.L. Moran, Inc.*
288	1976	Delta Mining, Inc.*
289	1976	Pine Mt. Coal Company*
290	1976	Delta Mining, Inc.*
291	1976	George Nolan**
292	1976	Alexander Coal Co.*
293	1976	Pine Mt. Coal Company*
294	1976	Arlen Miller***
295	1976	Action Mining, Inc.
296	1976	Bessemer Iron & Coal Company**
297	1977	Oakland Coal Company
298	1977	Bittinger Coal Company
299	1977	Inter-State Lumber, Inc.*
300	1977	Garbart Coal Company*
301	1977	Pine Mt. Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
302	1977	L.C. Coal Company, Inc.*
303	1977	Ginniman Brothers Coal Company**
304	1977	Buffalo Coal Company, Inc.*
305	1977	Wood Products, Inc.*
306	1977	Bridgeview Coal Company*
307	1977	T.L. Moran, Inc.*
308	1977	Best Coal Stripping, Inc.**
309	1977	Delta Mining, Inc.*
310	1977	Oakland Coal Company*
311	1977	Primrose Coal Company*
312	1977	R.A.K. Coal Company, Inc.**
313	1977	G&S Coal Company*
314	1977	Wilhelm Coal, Inc.
315	1977	Clise Coal Company
316	1977	Brawal Mining, Inc.*
317	1977	John R. Livingston**
318	1977	Winner Bros. Coal Company, Inc.
319	1977	John Duckworth Coal Company*
320	1977	Kelley Enterprises*
321	1978	Delta Mining, Inc.*
322	1978	Bridgeview Coal Company*
323	1978	Ayers Coal Company
324	1978	John Duckworth Coal Company
325	1978	G&S Coal Company, Inc.
326	1978	Buffalo Coal Company, Inc.
327	1978	Buffalo Coal Company, Inc.*
328	1978	Buffalo Coal Company, Inc.
329	1978	Winner Bros. Coal Company, Inc.
330	1978	Inter-State Lumber Company*
331	1978	R.A.K. Coal Company***
332	1978	Seneca Mining Company*
333	1978	Westvaco Resources, Inc.
334	1978	Buffalo Coal Company, Inc.*
335	1978	Inter-State Lumber Company
336	1978	Inter-State Lumber Company*
337	1978	Commonwealth Coals, Inc.
338	1978	Barton Mining Company, Inc.
339	1978	Wilhelm Coal, Inc.*
340	1978	Fetterolf Mining, Inc.*
341	1979	Eastern Mining Systems, Inc.**
342	1979	Primrose Coal Company*
343	1979	L.C. Coal Company
344	1979	Bridgeview Coal Company*
345	1979	Delta Mining, Inc.
346	1979	Inter-State Lumber Company*
347	1979	Kelley Enterprises*
348	1979	Schwinabart & Green, Joint Venture
349	1979	Wilhelm Coal, Inc.**
350	1980	Bridgeview Coal Company*
351	1980	Winner Bros. Coal Company, Inc.*
352	1980	John Duckworth Coal Company

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
353	1980	Winner Bros. Coal Company, Inc.
354	1980	Brawal Mining, Inc.*
355	1980	Hi-Note, Inc.
356	1980	G&S Coal Company, Inc.***
357	1980	Richard Duckworth Coal Company
358	1980	Bridgeview Coal Company*
359	1980	Buffalo Coal Company, Inc.
360	1980	Buffalo Coal Company, Inc.
361	1980	Pamela Mines, Inc.**
362	1980	Alpha Mining, Inc.
363	1980	Pamela Mines, Inc.**
364	1980	John Duckworth Coal Company
365	1980	G&S Coal Company, Inc.
366	1980	Buffalo Coal Company, Inc.
367	1980	Buffalo Coal Company, Inc.
368	1980	Winner Bros. Coal Company, Inc.
369	1980	Bittinger Coal Company*
370	1982	Keystone Mt. Development Company*
371	1982	Eagle Mining, Inc.
372	1982	John Duckworth Coal Company
373	1982	Commonwealth Coals, Inc.
374	1982	Winner Bros. Coal Company, Inc.
375	1982	Win-More Mining & Construction Company
376	1982	Jones Coal, Inc.
377	1982	Allegheny Mining Corporation
378	1982	Delta Mining, Inc.
379	1982	Masteller Coal Company
380	1982	Fairview Coal Company (Repermitted 399)*
381	1982	Richard Duckworth Coal Company
382	1983	Pine Mt. Coal Company
383	1983	Allegheny Mining Corporation
384	1983	Evans Coal Company*
385	1983	Jones Coal, Inc.
386	1983	Jones Mining, Inc.
387	1983	Hilltop Construction Company**
388	1983	Fetterolf Mining, Inc.*
389	1983	Phillips Mining, Inc.
390	1983	C.J. Merlo, Inc.*
391	1983	Oak Springs Coal Company*
392	1984	Westvaco Resources, Inc.
393	1984	Patriot Mining Company, Inc.
394	1984	Action Mining, Inc.
395	1984	Stan-Jan Excavating, Inc.*
396	1984	Allegheny Mining Corporation
397	1985	Michael R. McGowan*
398	1985	Brashear Coal Company
399	1985	Fairview Coal Company
400	1985	Delta Mining, Inc.
401	1985	Buffalo Coal Company, Inc.***
402	1985	Pine Mt. Coal Company
403	1985	Delta Mining, Inc.
404	1986	Clise Coal Company

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
405	1986	Jones Coal, Inc.
406	1986	Patriot Mining Company, Inc.
407	1986	Jones Coal, Inc.
408	1986	Tri Star Mining, Inc.
409	1986	Buffalo Coal Company, Inc.
410	1987	J. Walter Wassell
411	1987	Jenkins Development Company
412	1987	John Duckworth Coal Company
413	1988	Buffalo Coal Company, Inc.
414	1989	Phillips Mining, Inc.
415	1989	Pine Mt. Coal Company
416	1989	Action Mining, Inc.
417	1989	Tri Star Mining, Inc.

DEEP MINES

DM 101	1977	Mettiki Coal Corporation
DM 102	1977	Masteller Coal Company*
DM 103	1977	Mt. Top Coal Company
DM 104	1977	Mettiki Coal Corporation
DM 105	1977	Mettiki Coal Corporation
DM 106	1978	A&J Coal Corporation**
DM 107	1982	Masteller Coal Company
DM 108	1989	Preston Energy, Inc.

TIPPLES AND GOB PILES

SC-83-101	1983	Buffalo Coal Company
SC-83-102	1983	Buffalo Coal Company
SC-83-103	1983	Buffalo Coal Company
SC-83-104	1983	Buffalo Coal Company
SC-83-105	1983	Buffalo Coal Company***
SC-83-106		Permit Not Issued
SC-83-107	1983	Delta Coal Sales, Inc.
SC-83-108	1984	Delta Coal Sales, Inc.
SC-83-109		Permit Not Issued
SC-83-110	1983	Phillips Mining, Inc.
SC-83-111	1983	Westvaco Resources, Inc.
SC-83-112	1983	Winner Bros. Coal Company
SC-83-113		Permit Not Issued
SC-83-114	1984	Ever, Inc.*
SC-83-115		Permit Not Issued
SC-87-116	1987	John Duckworth Coal Company
SC-87-117	1987	Clark Coal Company
SC-87-118	1987	Black Diamond Energies, Inc.

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