

CALENDAR YEAR 1992

SEVENTIETH ANNUAL REPORT

of the

MARYLAND BUREAU OF MINES

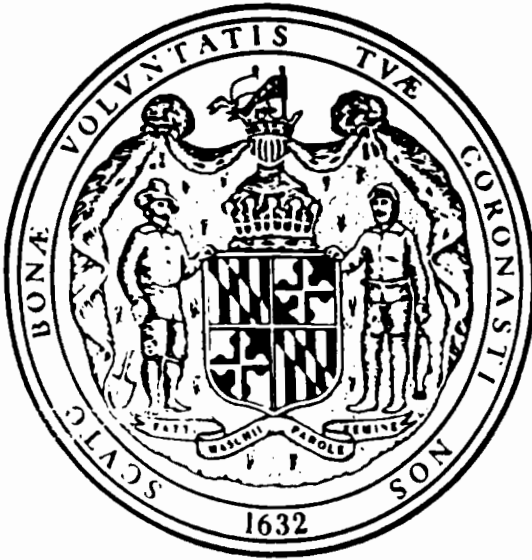


HON. WILLIAM DONALD SCHAEFER
Governor of Maryland

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

WATER RESOURCES ADMINISTRATION
ROBERT D. MILLER, 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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William Donald Schaefer
Governor

Maryland Department of Natural Resources

**Water Resources Administration
Bureau of Mines
160 S. Water Street
Frostburg, Maryland 21532**

Torrey C. Brown, M.D.
Secretary
Robert D. Miller
Director

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.

Telephone: 301-689-6104
DNR TTY for the Deaf: 301-974-3683

FOR THE CALENDAR YEAR 1992
REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 1992 totalled 3,439,265.18 tons. Production for 1992 represents a decrease of 262,965.06 tons from the 1991 production of 3,702,868.44 tons.

SUMMARY OF 1992 STATISTICS¹

COAL PRODUCTION

Mining Method	Allegany County	Garrett County	Total
Strip	698,015.37	357,935.69	1,055,951.06
Deep	0	2,383,314.12	2,383,314.12
Auger	0	0	0
TOTALS	698,015.37	2,741,249.81	3,439,265.18

EMPLOYEES²

Type of Mine	Allegany County	Garrett County	Total
Deep	0	315	315
Strip	165	84	249
TOTALS . .	165	399	564

¹Reports submitted by Maryland mining operators.

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

FOR THE CALENDAR YEAR 1992
 TONNAGE BY COAL SEAMS

Allegheny County

Waynesburg	29,041.73
Sewickley (Tyson)	105,721.29
Redstone.	278,231.80
Pittsburgh.	139,170.43
Morantown	71,039.55
L. Pittsburgh	39,076.69
Franklin.	35,733.88
Harlem.	0
Bakerstown.	0
Freeport.	0
Kittanning.	0
Federal Hill.	0
Barton.	0
TOTAL.	698,015.37

Garrett County

Sewickley	0
Pittsburgh.	58,094.52
Morantown	24,319.60
L. Pittsburgh	48,373.12
Franklin.	15,892.44
Barton.	10,999.95
Elk Lick.	0
Harlem.	40,063.04
Bakerstown.	48,689.82
Brush Creek	0
Freeport.	2,481,802.91
Kittanning.	2,112.00
Redstone.	10,902.41
TOTAL.	2,741,249.81

TONNAGE BY BASIN

Lower Youghiogheny.	0
Upper Youghiogheny.	0
Casselman	12,647.00
Casselman (Cherry Creek).	0
Potomac	2,501,468.28
George's Creek.	925,149.90
TOTAL.	3,439,265.18

HISTORICAL COAL PRODUCTION BY COUNTY AND TYPE OF MINING

YEAR	ALLEGANY CO.		GARRETT CO.		STATE TOTAL
	STRIP*	DEEP	STRIP*	DEEP	
1992	698,015.37	---	357,935.69	2,383,314.12	2,741,249.81
1991	781,671.55	---	378,832.57	2,542,364.32	2,921,196.89
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	1,900,071.24	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

*Figure includes coal removed by the auger method.

CALENDAR YEAR 1992
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		35,733.88			8.0	3.0	0.0
		Pittsburgh		22,964.65			-	-	-
		L.Pittsburgh		35,345.12			-	-	-
		Redstone		9,908.98			-	-	-
		Sewickley		3,297.86			-	-	-
		Morantown		8,794.21		-	-	-	
Brashear Coal Mines	264	Pittsburgh		22.00		2.0	3.0	3.0	
		Morantown		30,888.08		-	-	-	
Buffalo Coal Co.	326	Pittsburgh		24,588.97		0.0	13.0	13.0	
		Morantown		18,305.58		-	-	-	
		Redstone		13,007.83		-	-	-	
		Sewickley		8,046.53		0.0	6.0	6.0	
		Pittsburgh		9,862.43		-	-	-	
	422	Redstone		2,303.32		-	-	-	
		Morantown		2,919.21		-	-	-	
		L.Pittsburgh		317.71		26.0	-	-	
Clise Coal Co.	213	Waynesburg		12,598.21		5.0	0.0	0.0	
		Sewickley		468.97		1.0	0.0	0.0	
		Waynesburg		12,600.85		.5	0.0	0.0	
J. Duckworth Coal Co.	372	Pittsburgh		440.19		0.0	0.0	0.0	

Name of Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)				Acres Back-filled	Acres Planted
			Deep	Strip	Auger	Acres Affected		
R. Duckworth Coal Co.	381	Bakerstown	.00			2.0	2.0	
Fairview Coal Co.	399	Pittsburgh Morantown Redstone	9,143.87 3,083.15 5,846.87			1.0	3.0	
Hi Note Coal	231	Pittsburgh	.00			5.0	5.0	
Jenkins Development Co.	411	Waynesburg	3,842.67			5.0	0.0	
Jones Coal, Inc.	385 407	Sewickley Pittsburgh Sewickley Redstone	929.00 373.00 5,847.00 2,713.00			5.0 0.0 - -	5.0 0.0 - -	
Patriot Mining Co., Inc.	182	Pittsburgh	.00			2.0	2.0	
PBS Coals, Inc.	389	Pittsburgh Morantown Redstone Sewickley Redstone	32,496.20 2,821.30 28,412.59 2,186.55			4.0	9.0	
	414	Pittsburgh Morantown Sewickley	43,130.86 16,785.25 3,416.47 6,038.53			0.0 - - -	2.0 - - -	
Tri Star Mining, Inc.	419	L. Pittsburgh	3,413.86				(See Garrett County)	

Name of Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)				Acres Back-filled	Acres Planted
			Deep	Strip	Auger	Acres Affected		
Win-More Mining & Const.	273	Pittsburgh		5,606.20		0.0	0.0	0.0
		Redstone		2,635.70		-	-	-
		Sewickley		1,576.85		-	-	-
	375	Morantown		721.50		-	-	-
		Pittsburgh		2,387.67		.5	0.0	0.0
		Morantown		90.05		-	-	-
		Redstone		2,632.65		-	-	-
Winner Bros. Coal Co.	40	Redstone		57,860.00		4.0	3.0	3.0
		Pittsburgh		1,440.00		-	-	-
	207	Sewickley		20,570.00		0.0	7.0	7.0
		Redstone		32,760.00		-	-	-
	247	Pittsburgh		4,160.00		4.0	2.0	2.0
		Sewickley		1,480.00		-	-	-
	286	Redstone		27,800.00		-	-	-
		Sewickley		45,680.00		0.0	32.0	30.0
	318	Sewickley		9,600.00		13.0	0.0	20.0
		Waynesburg		.00		0.0	17.0	17.0
353	Pittsburgh		8,900.00		6.0	0.0	0.0	
	Redstone		49,220.00		-	-	-	
TOTAL ALLEGANY COUNTY				698,015.37		84.0	110.00	129.00

CALENDAR YEAR 1992
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 Back-filled	Acres Planted
			Deep	Strip	Auger	Acres Affected		
Action Mining, Inc.	416			12,647.00		12.0	0.0	0.0
Buffalo Coal	409	Bakerstown		13,750.31		21.0	32.0	32.0
		Harlem		27,416.04		-	-	-
	413	Pittsburgh		2,608.93		0.0	31.0	34.0
		Redstone		312.91		-	-	-
		Morantown		764.00		-	-	-
G&S Coal Co.	325	Barton		10,999.95		0.0	0.0	0.0
	365	Freeport		52,622.02		27.0	21.0	21.0
	421	Franklin		2,680.00		12.0	0.0	0.0
L.C. Coal Co., Inc.	343	Bakerstown		.00		0.0	3.0	3.0
Masteller Coal Co.	DM110	Kittanning	2,112.00			11.0	0.0	0.0
Mettiki Coal Corp.	DM101	Freeport	2,378,576.17			7.0	0.0	0.0
Patriot Mining Co., Inc.	406	Harlem	.00			0.0	4.0	4.0

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		4,786.37		.5	0.0	0.0	
	420	Morantown		1,884.45		4.0	0.0	0.0	
		Pittsburgh		2,680.49		-	-	-	
		Redstone		208.45		-	-	-	
Preston Energy, Inc.	DMA108	Bakerstown	2,625.95			0.0	1.0	1.0	
T.D. Mining	403	Redtone	8,723.99			11.0	0.0	0.0	
		Pittsburgh	29,147.11			-	-	-	
		Morantown	5,223.99			-	-	-	
Tri Star Mining, Inc.	418	Upper Freeport	50,604.72			20.0	9.0	9.0	
	419	Morantown	16,908.06			59.0	25.0	21.0	
		Pittsburgh	16,715.09			-	-	-	
		L.Pittsburgh	48,373.12			-	-	-	
		Redstone	1,657.06			-	-	-	
		Franklin	6,212.44			-	-	-	
Wassell, Walter	410	Bakerstown	27,527.19			5.0	0.0	0.0	
Westvaco Res., Inc.	333	Pittsburgh	6,482.00			6.0	14.0	14.0	
	SC-111	Tipple	.00			0.0	7.0	7.0	
TOTAL GARRETT COUNTY			2,383,314.12			195.5	147.0	146.0	
TOTAL ALLEGANY COUNTY			698,015.37			84.0	110.0	129.0	
TOTAL BOTH COUNTIES			2,383,314.12			279.5	257.0	275.0	

FOR CALENDAR YEAR 1992
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 1992
(By Geological Basin)

Table No. 1

		ACRES THIS YEAR					Reveg Bond Release*
		Permitted	Affected	Backfilled	Planted	Release*	
Allegheny County:							
Georges Creek Basin		197.00	84.00	110.00	129.00	45.00	
Garratt County:							
Georges Creek Basin		5.00	105.50	55.00	51.00	132.00	
Potomac River Basin		261.90	78.00	89.00	92.00	272.00	
Casselman River Basin**		0	12.00	0	0	18.00	
Cherry Creek Basin**		0	0	0	0	20.00	
Upper Yough Basin		0	0	3.00	3.00	19.00	
Lower Yough Basin		0	0	0	0	0	
TOTAL GARRETT COUNTY		266.90	195.50	147.00	146.00	461.00	
TOTAL BOTH COUNTIES		463.90	279.50	257.00	275.00	506.00	

Table No. 2

		ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 1992					
Allegheny County:							
Georges Creek Basin		6,213.50	4,741.20	4,170.97	4,234.80	3,313.50	
Garratt County:							
Georges Creek Basin		2,085.00	2,127.95	1,983.85	2,247.05	5,097.10	
Potomac River Basin		3,755.90	2,991.30	3,137.80	3,261.70	3,025.40	
Casselman River Basin**		1,416.60	1,112.00	1,229.50	1,111.20	1,108.80	
Cherry Creek Basin**		667.00	671.50	578.90	545.80	612.95	
Upper Yough Basin		216.00	157.35	215.35	189.30	211.50	
Lower Yough Basin		1,335.00	914.00	1,135.06	1,078.16	855.40	
TOTAL GARRETT COUNTY		9,475.50	7,974.10	8,280.46	8,433.21	7,598.05	
TOTAL BOTH COUNTIES		15,689.00	12,715.30	12,451.43	12,668.01	10,911.55	

*Total Reveg Bond Release by the Bureau.

**Both Casselman Geological Basin.

FOR CALENDAR YEAR 1992
 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
1992	3	3	1	16	2	3
1991	2	10	1	16	0	7
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

FOR CALENDAR YEAR 1992
BUREAU OF MINES EMPLOYEES

Anthony F. AbarDirector
Stephen M. Layton Energy Resources Admin. I
Fred L. Bagley. Energy Resources Officer IV
Alan V. Hooker. Energy Resources Officer IV
Mark Carney. Energy Resources Officer II
Constance A. Lyons Energy Resources Officer I
John C. Eilers Energy Resources Officer I
Joseph E. Mills. Environmental Specialist III
Bradley Nee. Energy Resources Specialist III
Raymond Karlstrand Natural Resources Manager
Larry Johnson. District Mine Inspector
Thomas P. Murray District Mine Inspector
Ruth D. Booth. Administrative Officer
Cathy A. Hooker. Office Secretary I
Sallie A. Shuman Office Secretary III
Mary Lynn Pegg Laboratory Scientist IV
Julie O'Connor Laboratory Scientist I

FOR THE CALENDAR YEAR 1992
LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 1992:

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES;

Emery T. Cleaves (Chairman), Maryland Geological Survey
Stephen M. Layton, Bureau of Mines
Ed Golden, DNR Wildlife Division
Robert Webster, DNR Forestry Division

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 REPRESENTATIVES:

Margaret Jamison, Garrett County
Tim Carney, Allegany County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

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

COAL INDUSTRY REPRESENTATIVES:

John Carey
Jerry Duckett

FOR THE CALENDAR YEAR 1992

Functions and Duties of the Committee:

The Land Reclamation Committee is responsible for the approval of all reclamation plans submitted, as part of an application for a permit, to the Bureau of Mines and for the oversight of land reclamation activities on surface coal mining operations in Maryland.

The Land Reclamation Committee visits potential and active mining sites to:

- (1) determine the suitability of the proposed reclamation plan;
- (2) review the annual mining and reclamation progress; and
- (3) evaluate the success of the revegetation practices.

During 1992, the Land Reclamation Committee conducted site visits on 12 days. These visits include field reviews of 37 Annual Mining and Reclamation Progress Reports, 14 abandoned mine land projects, 3 prospective mining sites, and 45 revegetation planting reports.

The Land Reclamation Committee conducts meetings at the request of the chairman to:

1. Review and approve reclamation plans;
2. Review annual reclamation progress on active mining permits;
3. Evaluate and approve the revegetation on areas eligible for Phase II bond release;
4. Review the surface coal mining laws, regulations and policies and recommend changes to improve effectiveness of the Maryland Regulatory programs; and
5. Recommend research and cost-sharing projects to promote optimum revegetation of surface coal mined lands.

During 1992, the Land Reclamation Committee met 4 times. During these meetings, the Land Reclamation Committee approved 4 reclamation plans, reviewed annual reclamation progress reports for 37 permits, evaluated 501 acres of revegetation eligible for Phase II bond release and approved 379 acres as meeting the standards for release.

FOR CALENDAR YEAR 1992

REVEGETATION OF STRIP MINED LANDS

Natural Resources Article, Title 7, Section 7-511 requires that a backfilling and planting report be submitted to the Bureau of Mines after planting is completed. When this report is approved by the Bureau, a minimum bond liability period of five years begins. All reclaimed permit areas 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 Phase II bond may be released when:

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;
4. Revegetation has been established in accordance with the approved reclamation plan and the standards for success of revegetation are met; and
5. The Land Reclamation Committee has approved the revegetation on the area.

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.

When all of the above requirements have been achieved, a longer evaluation time may still be required if the health conditions of the revegetation are questionable. Bonds cannot be

released until the required work is completed, the appropriate evaluation time has elapsed, and the permittee submits a complete application for bond release to the Bureau. The Bureau will only consider applications for bond release during the portion of the year when proper evaluation of the revegetation work can be made. During 1992, the Bureau released Phase II bond on 460 acres and Phase III bond on 506 acres.

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

**FOR CALENDAR YEAR 1992
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 (BPOCMRF) 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 1992, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provided \$2,787,939 for the reclamation of abandoned mine lands. Approximately 107 acres of abandoned mine lands located in Allegany and Garrett Counties, Maryland were reclaimed during the 1992 calendar year.

AML Projects Under Construction During 1992

- 1. Dutch Hollow Reclamation Project**
Location: Approximately 1.2 miles northwest Mt. Savage, Allegany County.
Size: 30 acres
Nature: Regrade and revegetate all disturbed areas to eliminate highwall hazards and erosion problems.
Cost: \$127,700.00
Fund Source: Maryland-Federal AML Fund

- 2. Frostburg Subsidence Reclamation Project**
Location: On Water Street in Frostburg, Allegany County.
Size: 1 1/2 acre
Nature: Pressure grouting of old mine entries under Water Street to stabilize the road from subsidence.
Cost: \$253,571.00
Fund Source: Maryland-Federal AML Fund

3. **Ocean Gob Piles Reclamation Project - (Phase I)**
 Location: 1/4 mile north of Midland, Allegany County,
 adjacent to MD Rt. 936 at Ocean.
 Size: 13 acres
 Nature: Regrading abandoned coal refuse materials,
 stabilize stream banks, removal of hazardous
 structures, and revegetation of all disturbed
 areas to eliminate safety hazards associated
 with the site.
 Cost: \$343,067.33
 Fund Source: Maryland-Federal AML Fund

4. **Lonaconing Subsidence Reclamation Project**
 Location: On Jackson Mountain Road, Lonaconing, Allegany
 County.
 Size: 2 acres
 Nature: Pressure grouting of mine voids to eliminate
 mine subsidence on Jackson Mountain Road,
 closure of two mine portals to eliminate
 public safety hazards, channelization of deep
 mine drainage to reduce sediment loading to
 George's Creek, and regrading and revegetation
 of all disturbed areas.
 Cost: \$676,105.00 -
 Fund Source: Maryland-Federal AML Fund

5. **Kyle Refuse Fire Reclamation Project**
 Location: 1 mile east of Lonaconing, Allegany County.
 Size: 1 Acre
 Nature: Excavation and extinguishing of approximately
 13,000 cubic yards of burning coal refuse
 located immediately adjacent to private
 residences.
 Cost: \$89,822.63
 Fund Source: Maryland-Federal AML Fund

6. **Wolfden Run Reclamation Project**
 Location: 1/2 mile west of Kitzmiller, Garrett County.
 Size: 5 acres
 Nature: Regrade eroded coal spoil out slopes,
 channelize stream flow through disturbed area,
 and revegetate all disturbed areas to
 eliminate safety hazards associated with the
 site and improve the environmental quality of
 Wolfden Run.
 Cost: \$111,311.00
 Fund Source: Maryland-Federal AML Fund

7. Gilman Mine Reclamation Project

Location: 10 miles east of Oakland, Garrett County, approximately 1/4 mile north of Potomac State Forest headquarters.
Size: 2.5 acre
Nature: Demolition and removal of abandoned mining equipment and structures to eliminate public safety hazards, channelization of deep mine drainage to reduce erosion, and regrading and revegetation of disturbed areas.
Cost: \$11,136.00
Fund Source: Maryland-Federal AML Fund

8. Durst Road Abandoned Mine Reclamation Project

Location: 4 miles southwest of Grantsville, Garrett County, adjacent to Durst Road at the Casselman River.
Size: 38 acres
Nature: Backfill and regrade an abandoned surface mine pit to eliminate the health and safety hazards posed by open pits, impounded water, and unstable spoil within the streambanks of the Casselman River.
Cost: \$178,623.00
Fund Source: Maryland-Federal AML Fund

9. Hilltop AML Reclamation Project

Location: 1/4 mile west of Table Rock at Backbone Mt., Garrett County.
Size: 14 acres
Nature: Reclamation of 14 acres of unstable spoil outcrops involving regrading and blending of spoil material into backfill of adjacent Surface Mine Permit SM-91-418. Project contracted concurrently with forfeiture reclamation of Surface Mine Permit SM-84-387.
Cost: \$148,443.75
Fund Source: Maryland-Federal AML Fund

Forfeiture Reclamation

The Maryland Bureau of Mines administers the reclamation of lands affected by operations on which the permit has been revoked and the bond forfeited. The funds received from the forfeiture of bonds and the bond supplement reserve, when the bond is not sufficient, are used to reclaim the lands affected by operations on which the liability was charged on the bonds.

Forfeiture Projects Under Construction During 1992

1. **Bessemer Mine Forfeiture Reclamation Project- Phase #1**
Location: 1 mile northwest of Frostburg, Allegany County on the east side of Savage Mt.
Size: 48 acres
Nature: Reclamation of 48 acres of the Bessemer Iron and Coal Co. permit No. SM-84-296 surface coal mine forfeiture. Phase 1 reclamation involved backfilling of the Bakerstown pit on the north end of area "A".
Cost: \$298,500.00
Fund Source: Bond Forfeiture & Bond Supplement Reserve

2. **Hilltop Mine Forfeiture Reclamation Project**
Location: 1/4 mile west of Table Rock at Backbone Mt., Garrett Co.
Size: 23 acres
Nature: Reclamation of 23 acres of Hilltop Construction Co., Inc. Permit SM-83-387 surface coal mine forfeiture. Reclamation involved regrading of 60,000 cu. yds. of spoil material and revegetation of the site. Remaining portion of the disturbed forfeiture area was repermited under Tri-Star Mining, Inc. Permit SM-91-418. The project was contracted concurrently with the Hilltop AML Reclamation Project.
Cost: \$62,043.45
Fund Source: Bond Forfeiture

FOR CALENDAR YEAR 1992

MINE FOREMAN AND FIRE BOSS
EXAMINATION AND CERTIFICATIONS

The number of Mine Foremen and Fire Boss applicants examined and certified from 1978 through 1992 are identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
1992	0	0	5*	0
1991	6	0	6	0
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

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

INSPECTION AND ENFORCEMENT ACTIVITIES
1988-1992

TYPE OF ACTION	1988	1989	1990	1991	1992
Inspections	1667	1653	1658	1757	1619
Notices of Violations	39	54	33	97	68
Cessation Orders	20	19	14	12	15
Citizen Complaints	9	15	19	32	38
Bond Forfeitures	1	2	1	0	2

MINING PERMITS ISSUED BY YEAR AND PERMITTEE

Permit No.	Year Issued	Permittee
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	PBS Coals, 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	T.D. Mining Company
404	1986	Clise Coal Company

Permit No.	Year Issued	Permittee
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	PBS Coals, Inc.
415	1989	Pine Mt. Coal Company
416	1989	Action Mining, Inc.
417	1989	Tri Star Mining, Inc.
418	1991	Tri Star Mining, Inc.
419	1991	Tri Star Mining, Inc.
420	1991	Pine Mt. Coal Company
421	1992	G&S Coal Company, Inc.
422	1992	Buffalo Coal Company, Inc.
423	1992	Jenkins Development Company

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.
DM 109	1991	Patriot Mining Company, Inc.
DM 110	1992	Masteller Coal Company

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	PBS Coals, 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	Tri Star Mining, Inc.
SC-87-118	1987	Patriot Mining Company, Inc.

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