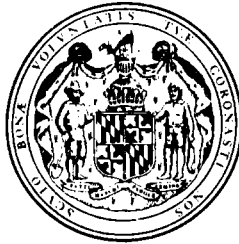


CALENDAR YEAR 1989

SIXTY-SEVENTH 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

CALENDAR YEAR 1989

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STATE OF MARYLAND  
DEPARTMENT OF NATURAL RESOURCES  
**WATER RESOURCES ADMINISTRATION**

TELEPHONE NO.  
301/689-4136



69 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 1989

REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 1989 totalled 3,368,629.30 tons. Production for 1989 represents an increase of 148,712.03 from the 1988 production of 3,219,917.27 tons.

SUMMARY OF 1989 STATISTICS<sup>1</sup>

COAL PRODUCTION

Mining Method	Allegheny County	Garrett County	Total	%
Strip . . . .	866,796.49	675,160.16	1,541,956.65	37.0
Deep . . . .	0	1,826,443.65	1,826,443.65	62.9
Auger . . . .	229.00	.00	229.00	.1
<b>TOTALS</b>	<b>867,025.49</b>	<b>2,501,603.81</b>	<b>3,368,629.30</b>	<b>100%</b>

EMPLOYEES<sup>2</sup>

Type of Mine	Allegheny County	Garrett County	Total	Fatalities
Deep . . . .	0	323	323	1
Strip . . . .	179	122	301	0
<b>TOTALS . . .</b>	<b>179</b>	<b>455</b>	<b>624</b>	<b>1</b>

Allegheny County shows a production of 4,843.71 net tons per man employed during 1989.

Garrett County shows a production of 5,498.03 net tons per man employed during 1989.

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

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

FOR THE CALENDAR YEAR 1989

TONNAGE BY COAL SEAMS

Allegheny County

Waynesburg. . . . .	61,238.63
Sewickley (Tyson) . . . . .	152,715.95
Redstone. . . . .	223,526.78
Pittsburgh. . . . .	268,385.41
Morantown . . . . .	32,414.77
L. Pittsburgh . . . . .	20,702.95
Franklin. . . . .	95,393.00
Harlem. . . . .	0
Bakerstown. . . . .	12,648.00
Freeport. . . . .	0
Kittanning. . . . .	0
Federal Hill. . . . .	0
Barton. . . . .	0
<b>TOTAL. . . . .</b>	<b>867,025.49</b>

Garrett County

Sewickley . . . . .	0
Pittsburgh. . . . .	96,878.00
Morantown . . . . .	0
L. Pittsburgh . . . . .	20,298.00
Franklin. . . . .	131,526.39
Barton. . . . .	31,114.19
Elk Lick. . . . .	0
Harlem. . . . .	50,358.50
Bakerstown. . . . .	234,565.38
Brush Creek . . . . .	0
Freeport. . . . .	1,917,351.12
Kittanning. . . . .	8,757.23
Redstone. . . . .	10,755.00
<b>TOTAL. . . . .</b>	<b>2,501,603.81</b>

TONNAGE BY BASIN

Lower Youghiogheny. . . . .	39,071.18
Upper Youghiogheny. . . . .	0
Casselman . . . . .	23,389.64
Casselman (Cherry Creek). . . . .	0
Potomac . . . . .	2,217,318.87
George's Creek. . . . .	1,088,849.61
<b>TOTAL. . . . .</b>	<b>3,368,629.30</b>

HISTORICAL COAL PRODUCTION BY COUNTY AND TYPE OF MINING

YEAR	ALLEGANY CO.		GARRETT CO.		STATE TOTAL	
	STRIP*	DEEP	STRIP*	DEEP	STRIP*	DEEP
1989	867,025.49	---	675,160.16	1,826,443.65	2,501,603.81	3,368,629.30
1988	562,139.94	---	642,948.91	2,014,828.42	2,657,777.33	3,219,917.27
1987	790,903.09	---	810,166.55	2,332,554.30	3,142,720.85	3,933,623.94
1986	696,377.39	---	786,429.97	2,572,505.11	3,358,935.08	4,055,312.47
1985	543,960.99	---	676,274.41	1,842,595.67	2,518,870.08	3,062,831.07
1984	730,135.35	---	1,145,507.03	2,117,657.44	3,263,164.47	3,993,299.82
1983	568,716.82	---	981,550.36	1,536,568.39	2,518,118.75	3,086,835.57
1982	814,102.63	---	1,058,360.96	1,587,428.07	2,645,789.03	3,459,891.66
1981	1,275,576.42	---	1,272,911.65	1,903,071.24	3,175,982.89	4,451,559.31
1980	1,122,817.48	---	1,143,643.80	1,493,630.97	2,637,274.77	3,760,092.25
1979	761,655.93	---	1,067,180.13	887,781.01	1,954,961.14	2,716,617.07
1978	1,082,370.39	---	1,389,078.89	379,872.61	1,768,951.50	2,851,321.89
1977	1,181,181.11	---	1,586,353.70	261,094.85	1,847,448.55	3,028,629.66
1976	972,234.87	---	1,547,928.09	175,016.00	1,722,944.09	2,695,178.96
1975	949,802.16	---	1,485,542.11	85,421.00	1,570,963.11	2,520,765.27
1974	707,380.56	---	1,423,836.38	90,196.00	1,514,032.38	2,221,412.94
1973	503,797.46	---	1,186,821.47	63,512.00	1,250,333.47	1,754,130.93
1972	519,980.00	---	983,007.74	135,430.61	1,118,438.35	1,638,418.46
1971	400,396.21	33,228.50	1,012,741.66	145,310.83	1,158,052.49	1,591,677.20
1970	365,735.25	59,235.83	864,281.33	177,750.36	1,042,031.69	1,467,002.77

\*Figure includes coal removed by the auger method.

CALENDAR YEAR 1989  
COAL PRODUCTION, MINING, AND RECLAMATION STATISTICS<sup>1</sup>

<sup>1</sup>This 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 Back-filled	Acres Planted
			Deep	Strip	Auger	Acres Affected		
Andalex Resources, Inc.	389	Pittsburgh		22,478.25		4.0	2.0	0.0
		Morantown		6,370.26		-	-	-
		Redstone		41,687.91		-	-	-
		Sewickley		3,836.71		-	-	-
		Pittsburgh	414	2,282.09		10.0	0.0	0.0
		Morantown		977.23		-	-	
		Redstone		12,272.01		-	-	
AVERS Coal Co.	323	Franklin		.00		0.0	4.0	4.0
Barton Mining Co.	338	Franklin		62,169.40		2.0	0.0	0.0
		Pittsburgh		30,363.70		-	-	-
		L. Pittsburgh		19,641.95		-	-	-
		Sewickley		1,705.49		-	-	-
		Redstone		9,905.37		-	-	-
		Morantown		5,143.05		-	-	-
Brashear Coal Mines	264	Pittsburgh		6,577.62		4.0	4.0	4.0
		Franklin		32,994.60		-	-	-
		Morantown		1,890.26		-	-	-
Buffalo Coal Co.	326 328	Pittsburgh		38,942.00		0.0	9.0	9.0
		Sewickley		17,530.65		9.0	0.0	0.0

PRODUCTION (TONS)

Name of Operator	Permit Number	Coal Seam Worked	Deep		Strip	Auger Worked	Acres Affected	Acres Back-filled	Acres Planted
			Strip	Auger					
Clise Coal Co.	211	Waynesburg	37,331.80				3.0	5.0	5.0
	315	Sewickley	7,858.86				3.0	4.0	4.0
	404	Sewickley	.00				2.0	0.0	0.0
Delta Mining, Inc.	378	Bakerstown	12,648.03				3.0	0.0	0.0
	403	Sewickley	2,180.64				20.0	12.5	12.5
		Redstone	21,127.08				-	-	-
		Pittsburgh	55,209.40				-	-	-
		Morantown	10,737.65				-	-	-
J. Duckworth Coal Co.	352	Pittsburgh	1,618.93				0.0	2.0	2.0
	372	Pittsburgh	33.09				0.0	0.0	0.0
Eckhart Coal Co.	184	Franklin		229.00			0.0	0.0	0.0
Ever, Inc.	SC-83-114	Gob Pile	10,321.80				0.0	0.0	0.0
Fairview Coal Co.	399	Pittsburgh	5,969.87				11.0	2.5	0.0
		Morantown	3,146.04				-	-	-
		Redstone	5,646.02				-	-	-
Hi-Note, Inc.	231	Pittsburgh	.00				0.0	14.0	18.0
Jenkins Development Co.	411	Waynesburg	18,306.83				9.0	8.0	8.0
Jones Coal, Inc.	385	Sewickley	370.34				0.0	4.0	4.0
		Redstone	829.73				-	-	-
	407	Pittsburgh	7,613.35				5.0	0.0	0.0
		Sewickley	3,625.83				-	-	-
		Redstone	8,490.84				-	-	-



Name of Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)				Auger	Acres Affected	Acres Back-filled	Acres Planted
			Deep	Strip						
Westvaco Res., Inc.	333	Pittsburgh L. Pittsburgh	4,987.00							
			1,061.00							
Win-More Mining & Const.	273	Pittsburgh Redstone Morantown Sewickley Pittsburgh Redstone Morantown	3,730.64				0.0	0.0	0.0	0.0
			4,793.38				-	-	-	-
			56.90				-	-	-	-
			840.40				-	-	-	-
			2,300.67				0.5	0.0	0.0	0.0
			4,414.44			-	-	-	-	
			133.38			-	-	-	-	
Winner Bros. Coal Co.	40  207  247  286 318 353 368  374	Redstone Pittsburgh Morantown Sewickley Redstone Pittsburgh Sewickley Redstone Sewickley Waynesburg Pittsburgh Redstone Sewickley	47,120.00				5.0	0.0	0.0	0.0
			21,420.00				-	-	-	-
			3,960.00				0.0	0.0	0.0	0.0
			33,756.00				-	-	-	-
			59,360.00				-	-	-	-
			34,520.00				8.0	1.0	1.0	1.0
			660.00				-	-	-	-
			5,620.00				-	-	-	-
			56,900.00				0.0	0.0	0.0	0.0
			13,908.00				3.0	0.0	0.0	0.0
			5,600.00				0.0	0.0	21.0	21.0
			15,780.00				1.0	0.0	0.0	0.0
			2,260.00				-	-	-	-
13,780.00				0.0	1.0	1.0	1.0			
TOTAL ALLEGANY COUNTY			866,796.49	229.00	102.5	94.0	94.0	94.0	94.5	

CALENDAR YEAR 1989  
COAL PRODUCTION, MINING, AND RECLAMATION STATISTICS<sup>1</sup>

<sup>1</sup>This 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				
Action Mining, Inc.	394	Harlem	2,911.00			0.0	19.0	19.0	
Allegheny Mining Corp.	396	Harlem	38,644.50			25.0	36.0	36.0	
Beener Coal Co.	143	Pittsburgh	3,297.00			11.0	31.0	31.0	
Buffalo Coal	409	Franklin	97,899.74			-	-	-	
	413	Bakerstown	50,324.00			12.0	20.0	20.0	
G&S Coal Co.		Pittsburgh	75,881.00			38.0	8.0	8.0	
	325	Barton	7,988.20			0.0	0.0	0.0	
	365	Freeport	60,593.52			13.0	0.0	0.0	
Jones Coal, Inc.	405	Freeport	39,071.18			10.0	3.0	3.0	
Masteller Coal Co.	DM107	Elk Lick	.00			0.0	11.0	11.0	
Mettiki Coal Corp.	DM101	Freeport	1,817,686.42			0.0	0.0	0.0	
Mt. Top Coal Co.	DM103	Kittanning	8,757.23			0.0	6.0	6.0	
Patriot Mining Co., Inc.	406	Harlem	8,803.00			72.0	84.0	84.0	
		Bakerstown	148,641.00			-	-	-	

Name of Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)				Acres Back-filled	Acres Planted
			Deep	Strip	Auger	Acres Affected		
Pine Mt. Coal Co.	382	Bakerstown		3,164.19		5.0	11.0	11.0
	415	Franklin Bakerstown		163.65 .00		- 5.0	- 4.0	- 4.0
Preston Energy, Inc.	DM108	Bakerstown	.00			12.0	0.0	0.0
Schwinabart & Green	348	Bakerstown		20,478.64		12.0	11.0	7.0
Tri Star Mining, Inc.	408	Barton		23,125.99		10.0	7.0	7.0
Wassell, Walter	410	Bakerstown		11,957.55		2.0	2.0	9.0
Westvaco Res., Inc.	311	Pittsburgh		17,700.00		49.0	28.0	28.0
		L. Pittsburgh		20,298.00		-	-	-
		Redstone Franklin		10,755.00 33,463.00		- -	- -	- -
TOTAL GARRETT COUNTY			1,826,443.65	675,160.16		276.0	288.0	284.0
TOTAL ALLEGANY COUNTY				866,796.49	229.00	102.5	94.0	93.5
TOTAL BOTH COUNTIES			1,826,443.65	1,541,956.65	229.00	378.5	382.0	377.5

FOR CALENDAR YEAR 1989  
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 1989  
(By Geological Basin)

Table No. 1

	Approved by LMC	Permitted	ACRES THIS YEAR*			Backfilled	Planted	Rever Bend Release	Final Reports
			Affected						
<b>Allegheny County:</b>									
Georges Creek Basin	41.00	112.00	102.50	94.00	93.50	89.70	2		
<b>Garrett County:</b>									
Georges Creek Basin	105.00	40.00	82.00	90.00	90.00	84.80	1		
Potomac River Basin	25.60	51.90	172.00	165.00	165.00	139.70	1		
Casselman River Basin**	42.00	42.00	12.00	30.00	26.00	26.00	1		
Cherry Creek Basin**	0	0	0	0	0	0	0		
Upper Yough Basin	0	0	0	0	0	0	0		
Lower Yough Basin	0	44.00	10.00	3.00	3.00	43.00	0		
TOTAL GARRETT COUNTY	172.60	177.90	276.00	288.00	284.00	293.50	3		
TOTAL BOTH COUNTIES	213.60	289.90	378.50	382.00	377.50	383.20	5		

Table 2

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 1989								
<b>Allegheny County:</b>								
Georges Creek Basin	6,615.38	5,923.50	4,489.50	3,842.97	3,820.30	2,977.80	48	
<b>Garrett County:</b>								
Georges Creek Basin	1,972.00	1,839.00	1,825.45	1,620.85	1,888.05	1,238.60	13	
Potomac River Basin	3,347.80	3,311.90	2,630.30	2,868.80	2,992.70	2,393.40	30	
Casselman River Basin**	1,844.30	1,416.60	1,094.00	1,207.50	1,084.20	945.50	24	
Cherry Creek Basin**	589.00	667.00	671.50	554.90	521.80	553.95	9	
Upper Yough Basin	253.00	216.00	157.35	187.35	161.30	192.90	5	
Lower Yough Basin	1,302.50	1,335.00	889.00	1,088.06	1,024.16	841.40	27	
TOTAL GARRETT COUNTY	9,108.60	8,785.50	7,267.60	7,527.46	7,672.21	6,165.75	108	
TOTAL BOTH COUNTIES	15,723.98	14,709.00	11,757.10	11,370.43	11,492.51	9,143.55	156	

\*Where difference occurs between Approved and Permitted, either Permit was approved in 1988 and not issued until 1989, or Permit was not issued.

\*\*Both Casselman Geological Basin.

Table No. 3  
 FOR CALENDAR YEAR 1989  
 SUMMARY OF LICENSES, PERMITS, FORFEITURES, AND COMPLETIONS

Year	New Surface Mine Licenses Issued	New Surface Mine Permits Processed	New Deep Mine Permits Processed	Amended Permits Processed	Forfeitures	Permits Completed
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
1975	20	37	0	62	0	16
Cumulative Total	123	182	7	247	20	175

FOR CALENDAR YEAR 1989  
BUREAU OF MINES EMPLOYEES

Anthony F. Abar . . . . . Director  
Stephen M. Layton . . . . . Energy Resources Admin. I  
Fred L. Bagley. . . . . Energy Resources Officer IV  
Alan V. Hooker . . . . . Energy Resources Officer III  
Mark Carney. . . . . Energy Resources Officer II  
Jeffrey S. McCombs . . . . . Energy Resources Officer I  
(1/89-11/89)  
Constance A. Lyons . . . . . Energy Resources Officer I  
John C. Eilers . . . . . Energy Resources Officer I  
Joseph E. Mills. . . . . Environmental Specialist III  
Raymond Karlstrand . . . . . District Mine Inspector  
R. Alan Hendrickson. . . . . District Mine Inspector  
Larry Johnson. . . . . District Mine Inspector  
P. Douglas Curtis. . . . . District Mine Inspector  
(1/89-6/89)  
Ruth D. Booth. . . . . Administrative Officer  
Cathy A. Hooker. . . . . Stenographer Clerk III  
Sallie A. Ricker . . . . . Office Secretary III  
Mary Lynn Pegg . . . . . Laboratory Scientist IV  
Julie O'Connor . . . . . Laboratory Scientist I

FOR THE CALENDAR YEAR 1989  
LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 1989:

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

CITIZENS' REPRESENTATIVES:

June Neder, Allegany County  
Jessie McCullough, Garrett County

COUNTY PLANNING & ZONING REPRESENTATIVE:

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

FOR THE CALENDAR YEAR 1989

Functions and Duties of the Committee:

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

The Land Reclamation Committee visits sites for which mining permit applications have been submitted/approved to:

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

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

1. Review and approval of reclamation plans;
2. Review and approval of Annual Mining and Reclamation Progress Reports;
3. Review and approval of revegetation prior to bond release.

During 1989, the Land Reclamation Committee met on 7 days, conducted site evaluations on 13 days, and processed 54 annual Mining and Reclamation Progress 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 and seed for an approved mining and reclamation plan.



FOR CALENDAR YEAR 1989  
REVEGETATION OF STRIP MINED LANDS

The State Land Reclamation Committee (LRC) voted to release 383.2 acres of reclaimed surface coal mined lands and 7 acres of reclaimed prospect permit area from a total of 405 acres eligible for revegetation bond release during 1989. The LRC also voted to reduce revegetation bond on 454 acres from a total of 607 eligible acres. This action was taken after consideration of 77 planting reports that were filed by 24 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 186 acres that were released or reduced.

The mining law requires that a Backfilling and Planting report be submitted to the Bureau after the planting is completed. When this report is signed by the mine inspector, the minimum bond holding period (five years for all permits issued after July 1, 1979) begins.

All reclaimed permit acres may have revegetation bonds reduced (by an amount not to exceed 50% of the bond) after two years and total bond released after five years from the approved planting date.

The revegetated bond can be reduced 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; 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 regetation are questionable . The Bureau of Mines has the final authority to release bond after LRC approval of revegetation.

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

Bond monies cannot be returned to permittees until they comply with three procedural requirements of the mining law:

newspaper of general circulation in the jurisdiction affected, (2) notify adjoining property owners, local government bodies, sewage authorities and water companies by certified mail of the pending bond release, and (3) make application for bond release to the Bureau (The Bureau of Mines must receive copies of the advertisements and landowner notifications.)

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

FOR CALENDAR YEAR 1989

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 1989, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provide \$2,180,562 for the reclamation of approximately 83 acres of abandoned mine lands in Allegany and Garrett Counties, Maryland.

Projects Under Construction During 1989

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 an abandoned surface mine spoil pile, approximately 2,500 feet in length, adjacent to active mining Permit SM-87-403.  
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 the 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 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: \$482,429.24  
 Fund Source: Maryland-Federal AML Fund
  
4. Midland Drainage Tunnel Reclamation Project  
 Location: Immediately SW of Midland, Allegany County.  
 Size: Approximately 1/2 acre  
 Scope of Work: Barricade an abandoned deep mine drainage  
 tunnel to eliminate safety hazards  
 associated with the tunnel opening.  
 Cost: \$7,691.87  
 Fund Source: Maryland-Federal AML Fund
  
5. Lonaconing Mine Openings Reclamation Project  
 Location: Located on northern edge of Lonaconing,  
 Allegany County.  
 Size: Approximately 1 acre  
 Scope of Work: Backfill three abandoned deep mine openings  
 to eliminate safety hazards associated with  
 the open and accessbile mine openings.  
 Cost: \$6,015.56  
 Fund Source: Maryland-Federal AML Fund
  
6. Hill Run Reclamation Project  
 Location: Immediately NE of Lonaconing, Allegany  
 County.  
 Size: Approximately 6 acres  
 Scope of Work: Remove, regrade and revegetate two coal  
 refuse piles, regrade and revegetate  
 abandoned surface mine open pit and control  
 deep mine drainage.  
 Cost: \$71,671  
 Fund Source: Maryland - Federal AML Fund

7. Austin Kelly Phase III Abandoned Mine Reclamation  
Location: Approximately 2.6 miles SE of Grantsville,  
Garrett County.  
Size: Approximately 3 acres  
Scope of Work: Excavation and regrading of 39,000 cubic  
yards of abandoned spoil material in  
conjunction with active mining permit and  
revegetation of disturbed areas.  
Cost: \$37,591  
Fund Source: Maryland - Federal AML Fund
8. Squirrel Neck Run Pollution Abatement Project  
Location: West edge of Midland, Allegany County.  
Size: Approximately 7 acres  
Scope of Work: Reconstruction of 4,200 L.F. of stream  
channel, including clay and PVC liner and  
rip-rap armorment of stream channel and  
regrading and revegetation of all disturbed  
areas.  
Cost: \$471,212.13  
Fund Source: Maryland - Federal AML Fund

FOR CALENDAR YEAR 1989

MINE FOREMAN AND FIRE BOSS  
EXAMINATION AND CERTIFICATIONS

The number of Mine Foremen and Fire Boss applicants examined and certified from 1976 through 1989 are identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
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  
1985-1989

TYPE OF ACTION	1985	1986	1987	1988	1989
Inspections	1910	1873	1728	1667	1653
Notices of Violations	94	84	35	39	54
Cessation Orders	43	25	21	20	19
Citizen Complaints	17	19	37	9	15
Bond Forfeitures	1	1	0	1	2

FOR THE CALENDAR YEAR 1989

ACCIDENT REPORT

COMPANY	PERMIT NUMBER	NON-FATAL ACCIDENTS	NUMBER OF ACCIDENTS	WORKING DAYS LOST	FATAL ACCIDENTS
Mettiki Coal	DM101,104,105	85		1,894	1
Beener Coal Co.	143	2		17	0
Delta Mining, Inc.	378	1		76	0
	403	2		40	0
Jenkins Development	411	1		13	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 Dupstadt*
179	1971	Somerset Excavating, Inc.*
180	1971	Ayers Coal Company*
181	1971	Delta Mining, Inc.*
182	1971	Black Diamond Energies, 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	Bessemer 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	Andalex Resources, Inc.
390	1983	C.J. Merlo, Inc.*
391	1983	Oak Springs Coal Company*
392	1984	Westvaco Resources, Inc.
393	1984	Black Diamond Energies, 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	Andalex Resources, 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	Potomac Coal Company
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