

CALENDAR YEAR 1983
SIXTY-FIRST ANNUAL REPORT
of the
MARYLAND BUREAU OF MINES



TO
HON. HARRY HUGHES
Governor of Maryland
DEPARTMENT OF NATURAL RESOURCES
TORREY C. BROWN, M.D., The Secretary

ENERGY ADMINISTRATION
PAUL MASSICOT, Administrator

From
MARYLAND BUREAU OF MINES
ANTHONY F. ABAR, Director

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FOR THE CALENDAR YEAR 1983

STATE OF MARYLAND
DEPARTMENT OF NATURAL RESOURCES
ENERGY ADMINISTRATION
BUREAU OF MINES

FROSTBURG, MARYLAND 21532

LETTER OF TRANSMITTAL

To His Excellency

HONORABLE HARRY HUGHES

Governor of Maryland

Sir:

I have the honor to submit herewith the Sixty-first Annual Report of the Maryland Bureau of Mines for the period January 1, 1983 through December 31, 1983, in compliance with the Maryland Mining Law. This Report is the One Hundred Seventh Annual Report upon conditions of the coal mines within the State.

Very respectfully,

Anthony F. Abar
Director

FOR CALENDAR YEAR 1983

Anthony F. Abar Director
Stephen M. Layton Energy Resources Officer III
Fred L. Bagley Energy Resources Officer III
Alan V. Hooker Energy Resources Officer II
Kenneth K. Eltschlager Energy Resources Officer I
Jeffrey S. McCombs Energy Resources Officer I
Michael C. Manthos . . Energy Resources Officer I (1/83-8/83)
Joseph M. Ruperto Energy Resources Officer I
Richard A. Gardner Energy Resources Specialist III
P. Douglas Curtis District Mine Inspector
John C. Eilers District Mine Inspector
Raymond Karlstrand District Mine Inspector
Joseph E. Mills District Mine Inspector
Ruth D. Booth Office Supervisor
Mary E. Cameron Office Secretary II (1/83 - 7/83)
Dorothy E. Roberson Office Secretary I
Mary Lynn Hotchkiss Pegg Laboratory Scientist IV
Buford J. McDonald Conservation Associate IV

FOR THE CALENDAR YEAR 1983

REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 1983 totalled 3,086,835.57 tons. Production for 1983 represents a decrease of 373,056.09 from the 1982 production of 3,459,891.66 tons.

SUMMARY OF 1983 STATISTICS¹

COAL PRODUCTION

Mining Method	Allegany County	Garrett County	Total	%
Strip	567,586.82	978,230.36	1,545,817.18	50
Deep	0	1,536,568.39	1,536,568.39	49.5
Auger	1,130.00	3,320.00	4,450.00	.50
TOTALS . .	568,716.82	2,518,118.75	3,086,835.57	100

EMPLOYEES¹

Type of Mine	Allegany County	Garrett County	Total	Fatalities
Deep	0	606	606	0
Strip	185	248	433	0
TOTALS² . .	185	854	1,039	0

Allegany County shows a production of 3,074.14 net tons per man employed during 1983.

Garrett County shows a production of 2,948.61 net tons per man employed during 1983.

¹Reports submitted by Maryland mining operators.

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

FOR THE CALENDAR YEAR 1983

TONNAGE BY COAL SEAMS

Allegheny County

Waynesburg	175,777.87
Sewickley (Tyson).	80,794.17
Redstone	26,652.16
Pittsburgh	212,807.84
Morantown.	19,404.91
L. Pittsburgh.	1,455.50
Franklin	35,845.62
Harlem	0
Bakerstown	13,132.75
Freeport	0
Kittanning	0
Barton	2,846.00
TOTAL	568,716.82

Garrett County

Sewickley.	1,084.00
Pittsburgh	260,228.74
Morantown.	0
L. Pittsburgh	115,462.00
Franklin	5,116.00
Barton	69,956.00
Elk Lick	128,938.92
Harlem	3,316.00
Bakerstown	258,235.81
Brush Creek.	0
Freeport	1,582,448.61
Kittanning	93,332.67
TOTAL	2,518,118.75

TONNAGE BY BASIN

Lower Youghiogheny	154,701.10
Upper Youghiogheny	10,023.93
Casselman.	121,012.45
Casselman (Cherry Creek)	55,872.00
Potomac.	1,771,584.91
George's Creek	973,641.18
TOTAL	3,086,835.57

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1983
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE				ACRES			
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved	
Alpha Mining, Inc.	362	Pittsburgh	2	60	3,440		1,006.90		3	4.5	4.5	0	
	323	Franklin	2	206	1,378		3,762.00		2	2	1.5	2.5	
	296	Bakerstown	1	150	729		NP		0	0	0	0	
	264	Pittsburgh	8	252	12,514		6,806.25		4.6	2.5	2.5	7.5	
Brashear Coal Mines		L. Pittsburgh	-	-	-		1,455.50		0	0	0	0	
		Morantown	-	-	-		4,036.85		0	0	0	0	
		Franklin	-	-	-		11,317.32		0	0	0	0	
Buffalo Coal Company	276	Pittsburgh	0	0	0		NP		0	0	0	0	
	279	Pittsburgh	2	37	592		NP		0	27	56	0	
	326	Pittsburgh	4	54	352		13,110.00		3	2	2	3	
	328	Tyson	5	49	840		8,505.00		3	0	0	0	
	334	Franklin	0	0	0		NP		0	0	0	0	
	359	Pittsburgh	2	28	176		1,630.00		1	0	0	0	
Bison Tipple	SC-83-101	Tipple	2	240	2,235		NP		0	0	0	0	
	SC-83-104	Tipple	3	124	2,965		NP		0	0	0	0	
Clise Coal Company	234	Tyson	0	0	0		NP		0	0	0	10	
	315	Tyson	4	222	6,817.50		12,431.37		3	0	0	0	
Commonwealth Coals	337	Morantown	4	255	4,628		2,514.51		1	2	2	4.5	
		Pittsburgh	-	-	-		2,801.82		-	-	-	-	

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1983
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE			ACRES			
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved
Commonwealth Coals	373	Pittsburgh	4	255	4,628		13,702.22		4.5	0	0	0
		Morantown	-	-	-		8,636.24		-	-	-	-
		Redstone	-	-	-		1,119.46		-	-	-	-
Delta Mining, Inc.	213	Waynesburg	12	213	15,848		101,638.75		30	12	26	16
		Pittsburgh	2	194	3,167		8,253.20		4	3	3	-
Delta Coal Sales	SC-83 109	Waynesburg	0	0	0		NP		0	0	0	0
		Tippie	10	254	17,824.5		NP		0	0	0	0
J. Duckworth Coal	324	Pittsburgh	0	0	0		NP		0	0	0	0
		Pittsburgh	4	246	8,144		20,757.19		0	0	0	0
R. Duckworth Coal	372	Pittsburgh	2	240	3,896		11,510.86		5	0	0	0
		Bakerstown	0	0	0		NP		4	4	4	0
Dupstadt Coal Co.	178	Bakerstown	2	38	608		2,295.18		3.5	0	0	0
		Pittsburgh	0	0	0		NP		0	0	0	0
Eckhart Coal Co.	184A	Franklin	2	177	3,490			1,130.00	0	0	0	0
		Pittsburgh	0	0	0		NP		0	0	0	0
Ever, Inc.	SC-83 114	Pittsburgh	0	0	0		2,374.00		.10	0	0	0
		Gob Pile	0	0	0		NP		0	0	0	0
Fairview Coal Co.	380	Pittsburgh	2	66	50		2,717.10		.80	0	0	0
		Morantown	2	33	18		509.31		-	-	-	-
Frostburg Coal Co.	SC-83 109	Tippie	0	0	0		NP		0	0	0	0

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1983
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE			ACRES			
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved
Hi-Note, Inc.	231	Pittsburgh	4	298	875.5		21,925.49		7	3	3	12.4
Clyde Marsh Coal	268	Redstone	7	228	789		2,786.00		0	0	0	13.5
		Tyson	-	-	-		349.30		0	0	0	0
		Morantown	4	16	487		163.00		0	0	0	0
		Bakerstown	10	76	1,514		5,906.65		7	4.5	0	0
		Pittsburgh	-	-	-		500.35		0	3	3	0
C.J. Merlo, Inc.	390	Pittsburgh	1	22	83		3,087.00		1.5	0	0	0
Oliver Mining Co.	233	Pittsburgh	8	203	650.5		15,414.11		4.3	1.3	0	0
	338	Franklin	8	182	350		19,636.30		0	0	0	13.1
Phillips Coal Co.	187	Pittsburgh	0	0	0		NP		0	0	0	10
T.G.&C. Coal Co.	286	Waynesburg	2	21	324		1,177.55		12	9	6	5
		Sewickley	2	20	320		1,051.50		1	0	0	0
	318	Sewickley	0	0	0		NP		0	0	0	14
	374	Waynesburg	7	196	14,087		59,767.57		0	0	0	0
Tower Resources,	251	Sewickley	0	0	0		0		0	0	0	22
	259	Freeport	0	0	0		0		0	0	0	13
	284	Kittanning	0	0	0		NP		0	60	60	10.5
		Bakerstown	5	56	1,193.5		4,930.92		-	-	-	-
		Freeport	0	0	0		NP		-	-	-	-
371	Freeport	0	0	0		NP		3	25	25	0	
SC-83-110		Tipple	0	0	0		NP		0	0	0	0

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1983
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE			ACRES				
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved	
Wilhelm Coal, Inc.	339	Harlem	0	0	0		NP		0	0	0	0	3
	355	Barton	2	48	669		2,846.00		0	0	0	0	0
Win-More Mining	273	Pittsburgh	5	223	7,080		5,671.10		0	0	0	0	7
		Redstone	-	-	-		12,825.70		-	-	-	-	-
		Morantown	-	-	-		3,100.50		-	-	-	-	-
	375	Pittsburgh	-	-	-		1,285.25		1.5	0	0	0	0
		Redstone	-	-	-		380.00		-	-	-	-	-
		Morantown	-	-	-		444.50		-	-	-	-	-
Winner Brothers Coal	40	Redstone	4	200	6,637		9,299.00		0	0	0	0	0
	182	Pittsburgh	0	0	0		NP		0	0	0	11	0
	202	Tyson	0	0	0		NP		0	28	28	0	0
	207	Tyson	9	264	20,099		47,730.00		0	0	0	0	0
		Pittsburgh	6	264	13,785		56,775.00		0	0	0	0	0
	247	Pittsburgh	4	264	8,212		12,878.00		0	0	0	0	0
		Tyson	4	110	3,636		10,727.00		0	0	0	0	0
	329	Redstone	2	44	717		242.00		8	0	0	0	0
	351	Waynesburg	2	66	1,676		3,615.00		1	35	35	0	0
	353	Waynesburg	4	198	4,842		9,579.00		15	0	0	0	0
	368	Pittsburgh	2	264	5,343		10,602.00		4	0	0	0	0
	SC-83-11		Tipple	0	0	0		NP		0	0	0	0
	TOTAL ALLEGANY COUNTY			185	6,711	188,419.50		567,586.82		137.8	227.80	261.50	194.10

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1983
FOR GARRETT COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-hour Exposure	TONNAGE			ACRES				
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved	
Action Mining, Inc.	272A	Freeport	-	-	-			2,312.00	-	-	-	-	-
	272	Kittanning	3	84	6,560		2,542.00		3	0	0	0	7
		Freeport	-	-	-		10,214.00		5	3	0	0	0
	295	Kittanning	6	247	13,339		42,708.00		11	15	2	0	0
		Freeport	6	103	13,339		3,934.00		2	0	0	0	0
Allegheny Mining	277	Freeport	12	245	1,536		55,872.00		20	12	12	0	0
Beener Coal Company	143	Pittsburgh	16	306	41,879		208,832.74		10	20	20	18	18
Best Coal Stripping	308	Bakerstown	6	43	488		3,696.77		0	0	0	0	0
Bittinger Coal Co.	265	Freeport	2	40	740		NP		0	0	0	0	0
	369	Brush Creek	0	0	0		NP		1	8	8	0	0
Buffalo Coal Co.	215	Bakerstown	8	78	816		7,750.00		1.5	5	3	5	5
	240	Freeport	8	79	1,280		7,540.00		2	2	0	0	0
	304	Freeport	0	0	0		0		0	0	0	18	18
	360	Freeport	4	46	640		9,902.00		1	0	0	0	0
	366	Barton	15	149	1,848		60,978.00		18	59	59	0	0
	367	(in West Virginia)				area of mineral extraction is entirely in the State of West Virginia		5					
	SC-83-102	Tipple	3	200	4,794				0	0	0	0	0
SC-83-103	Tipple	5	202	8,102				0	0	0	0	0	
SC-83-105	Tipple	0	0	0				0	0	0	0	0	
Brawal Mining, Inc.	316	Kittanning	0	0	0		NP		0	0	0	0	40

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1983
FOR GARRETT COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE				ACRES		
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved
Delta Mining, Inc.	309	Bakerstown	0	0	0		NP		0	0	0	49
	345	Bakerstown	7	216	7,715.50		8,632.45		3	20	21	0
Delta Coal Sales	SC083-108	Tipple	1	254	1,920		NP		0	0	0	0
J. Duckworth Coal	364	Bakerstown	5	252	9,600		22,484.46		17	13.5	13.5	0
G&S Coal Company	325	Barton	2	164	2,624		8,978.00		0	0	0	0
	365	Freeport	10	200	16,000		38,431.00		13	0	0	0
	365A	Freeport	6	23	1,104			1,008.00	-	-	-	-
Garbart Coal Company	300	Kittanning	0	0	0		NP		0	0	0	38.8
Highland Mining Co.	239	Freeport	0	0	0		NP		0	0	0	0
Inter-State Lumber	335	Bakerstown	22	210	30,898		129,935.10		7	18	18	18
Jones Coal, Inc.	376	Kittanning	5	183	222		17,303.44		5	3	3	0
	386	Kittanning	3	48	115		7,462.56		4	0	0	0
L.C. Coal Company	343	Bakerstown	8	123	4,906		10,023.93		1.75	10	0	10
Masteller Coal Co.	379	Bakerstown	9	259	10,002		63,977.75		0	10	5	0
	DM102	Kittanning	0	0	0		COMPLETED		0	0	0	0
	DM107	Elk Lick	30	246	68,581		128,938.92		0	0	0	0
Mettiki Coal Corp.	DM101	Freeport	258	237	408,358		478,312.53		0	0	0	0
	DM104	Freeport	155	237	205,082.5		516,993.64		0	0	0	0
	DM105	Freeport	154	237	207,490.25		389,006.63		0	0	0	0
Mt. Top Coal Co.	DM103	Kittanning	9	160	9,569.50		23,316.67		0	0	0	0
New Mineral Coal Co.	64	Bakerstown	0	0	0		NP		0	0	0	15

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1983
FOR GARRETT COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TONNAGE				ACRES			
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved	
Oakland Coal Co.	173	Harlem	5	109	732.5		3,316.00			30.2	30.2	0	0
	297	Freeport	8	225	1,800		39,146.00			0	0	0	0
	310	Harlem	0	0	0		COMPLETED			0	0	0	21.8
	377	Freeport	11	196	1,568		18,765.00			10	6.2	4.6	0
	383	Freeport	4	116	928		10,674.00			27	3	3	0
Pamela Mines, Inc.	361	Waynesburg	-	-	-		No Reports Submitted			-	-	-	-
	363	Pittsburgh	0	0	0		COMPLETED			0	0	0	0
		Morantown	0	0	0					0	0	0	0
Pine Mt. Coal Co.	289	Freeport	1	115	1,064		337.81			.75	.75	14	14
	293	Bakerstown	0	0	0		0			0	0	0	0
	382	Bakerstown	2	22	352		211.35			.50	0	0	0
	348	Bakerstown	5	217	8,680		11,524.00			2	0	0	0
Schwinbart & Green	206	Bakerstown	2	73	160		COMPLETED			0	29.6	29.6	0
	333	L. Pittsburgh	38	251	84,045		115,462.00			30	9.7	0	59.3
Westvaco Resources		Pittsburgh	-	-	-		51,396.00			18	0	0	0
		Tyson	-	-	-		1,084.00			0	0	0	0
		Franklin	-	-	-		5,116.00			0	30	63.6	0
		Bakerstown	0	0	0		NP			0	0	0	2
Wilhelm Coal, Inc.	193	Freeport	0	0	0		NP			0	0	0	0
	314	Brush Creek	0	0	0		NP			0	0	0	0
Total Garrett County			864	6,195	1,178,878.28		978,230.36			228.50	307.95	296.25	329.90
			185	6,711	1,888,419.50		567,586.82			137.80	227.80	261.50	194.10
Total Both Counties	1,039		12,906	1,367,297.75	1,536,568.39		1,545,817.18			366.30	535.75	557.75	524.00

FOR CALENDAR YEAR 1983
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 1983
(By Geological Basin)

Table No. 1

	Acres Approved By LRC	Permitted	Stripped	ACRES THIS YEAR*		Planted	Reveg Bond Released	Final Reports
				Back-filled				
Allegany County:								
Georges Creek Basin	496.10	59.3	137.80	227.80	261.50	194.10	5	
Garrett County:								
Georges Creek Basin	9.0	7.0	76.25	73.95	97.85	107.30	2	
Potomac River Basin	97.20	213.0	77.50	145.00	134.40	44.80	0	
Casselman River Basin**	128.0	0	36.00	38.00	23.00	96.00	1	
Cherry Creek Basin**	0	0	21.00	20.00	20.00	0	0	
Upper Yough Basin	0	0	1.75	10.00	0	25.0	1	
Lower Yough Basin	32.0	35.0	16.00	21.00	21.00	56.8	1	
TOTAL GARRETT COUNTY	266.20	255.0	228.50	307.95	296.25	329.90	5	
TOTAL BOTH COUNTIES	762.30	314.30	366.30	535.75	557.75	524.00	10	

Table 2

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 1983

	Acres Approved By LRC	Permitted	Stripped	ACRES THIS YEAR*		Planted	Reveg Bond Released	Final Reports
				Back-filled				
Allegany County:								
Georges Creek Basin	6,250.28	5,008.5	3,356.60	2,659.87	2,712.10	2,127.40	35	
Garrett County:								
Georges Creek Basin	1,283.00	1,104.0	1,153.05	887.95	1,185.15	1,018.70	8	
Potomac River Basin	2,630.20	2,442.0	1,533.70	1,541.10	1,750.90	1,929.00	17	
Casselman River Basin**	1,534.30	1,175.0	897.00	961.10	842.90	692.00	18	
Cherry Creek Basin**	574.00	662.0	593.90	433.40	423.80	392.75	8	
Upper Yough Basin	253.00	214.0	140.45	159.35	138.30	190.90	4	
Lower Yough Basin	1,142.50	1,244.0	775.00	984.86	893.96	627.70	24	
TOTAL GARRETT COUNTY	7,417.00	6,841.0	5,093.10	4,967.76	5,235.01	4,851.05	71	
TOTAL BOTH COUNTIES	13,667.28	11,849.50	8,449.70	7,627.63	7,947.11	6,978.45	106	

* Where difference occurs between Approved and Permitted, either Permit was approved in 1982 and not issue until 1983, or Permit was not issued.

** Both Casselman Geological Basin.

Table No. 3

FOR CALENDAR YEAR 1983

SUMMARY OF MINING AND RECLAMATION STATISTICS

	1975 - 1983											Cumulative Total
	1975	1976	1977	1978	1979	1980	1981	1982	1983			
New Surface Mine Licenses Issued	20	12	13	9	8	6	10	8	13			99
New Surface Mine Permits Issued	37	19	25	20	7	19	0	11	12			150
New Deep Mine Permits Issued	0	0	1	5	0	0	0	1	0			7
A.M.&R.P.'s Processed	92	111	135	156	139	111	100	99	97			1,040
Amended Permits Processed	62	38	36	24	8	19	11	15	11			224
Forfeitures	0	0	0	1	4	5	1	0	0			11
Permits Completed and Planted	16	3	19	17	19	15	16	16	11			132
Site Evaluation Committee Days	23	28	32	23	22	25	22	31	25			231
Land Reclamation Committee Days	14	12	11	13	9	11	9	12	15			106

FOR THE CALENDAR YEAR 1983

LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 1983:

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

Kenneth N. Weaver (Chairman), Maryland Geological Survey
Stephen M. Layton, Bureau of Mines
Paul Mateer, Maryland Forest Service
Edward Golden, Maryland Wildlife Administration

DEPARTMENT OF HEALTH AND MENTAL HYGIENE REPRESENTATIVE:

Robert V. Creter, Office of Environmental Programs

CITIZENS' REPRESENTATIVES:

June Neder, Allegany County
Hugh Trimble, Garrett County

COUNTY PLANNING & ZONING REPRESENTATIVES:

Tim Carney, Allegany County
Fran Pope, Garrett County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

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

COAL INDUSTRY REPRESENTATIVES:

John E. Carey
James M. Coffroth

Meetings

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

FOR THE CALENDAR YEAR 1983

Functions and Duties of the Committee:

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

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

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

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

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

Other functions of the Land Reclamation Committee include:

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

FOR THE CALENDAR YEAR 1983

REVEGETATION OF STRIP MINED LANDS

The State Land Reclamation Committee (LRC) voted to release 524 acres of reclaimed surface coal mined land from a total of 1,307 acres eligible for revegetation bond release during the summer and fall, 1983. This action was taken after consideration of 104 planting reports that were filed by 58 coal companies.

All reclaimed acres were planted with a grass and legume mixture to insure adequate erosion control protection. In addition, trees and/or shrubs were planted on 44 acres.

The LRC also voted to reduce revegetation bond on 153 acres. This was the second year in which revegetation bond could be reduced and is the result of the requirement of a five year holding period for revegetation bond. This requirement began for mining permits issued by the Bureau after July 1, 1979. Revegetation bonds may be reduced after two growing seasons to an amount not to exceed fifty percent of the total bond amount if release criteria are met. The criteria that must be met prior to release of revegetation bonds are as follows:

1. Herbaceous cover must be at least 90% of the eligible acres;
2. Bare areas cannot exceed 900 square feet;
3. Permanent legumes, well distributed, must comprise at least 10% of the coverage;
4. Erosion rills and gullies cannot exceed 9 inches in depth;

5. There are no depressions and/or seeps in the revegetated area;
6. If trees and shrubs were planted, at least 600 living stems, well distributed, must exist per acre;

Longer evaluation time may be required even if an area meets these criteria, if the health conditions of the vegetation are questionable.

The principal reason for disapproval of acres was failure to meet the permanent legume requirement. The permanent legume is very important in sustaining vegetative cover if the land is not managed after bond release.

The percentage of acres released to acres eligible for release is 49. This, compared to an average of 62% in past years, reflects poorer results are being obtained.

During January of each year, a listing of the acres eligible for revegetation bond release is compiled and is available upon request from the Bureau of Mines. Revegetation bond monies cannot be returned to permittees until they comply with two requirements of the mining law. (1) advertise once a week for four consecutive weeks in a newspaper of general circulation in the jurisdiction affected, and (2) to notify adjoining property owners, local government bodies, sewage authorities and water companies by certified mail. The Bureau of Mines must receive a copy of the advertisement and land owner notifications.



A reclaimed old mine on the Savage River State Forest. This area was used as a dump for many years. Presently, it is being used for forestry and wildlife habitat.



A strip mined area reclaimed for pastureland use.

FOR CALENDAR YEAR 1983

ABANDONED MINE LAND RECLAMATION

The Bureau of Mines administers two programs to reclaim and restore land and water resources adversely affected by past coal mining practices. These two programs are, 1) Maryland Federal Abandoned Mine Reclamation Program, implemented utilizing Federal funds under the authority of the Federal Surface Mining Control and Reclamation Act of 1977, (U.S. Public Law 95-87), and Chapter 399 of the Acts of 1979 (Natural Resources Article, Title 7, Subtitle 9 of the Annotated Code of Maryland), and 2) Maryland Mine Reclamation Program, implemented utilizing funds from the Bituminous Coal Open-Pit Mining Reclamation Fund under the authority of Natural Resources Article, Title 7, Subtitle 5, Sections 7-507.1, 7-510, and 7-5A-12.

Maryland Federal Abandoned Mine Reclamation Program

The Maryland Bureau of Mines received Federal approval of the Maryland Reclamation Plan on July 16, 1982, thus enabling Maryland to receive and expend Federal funds for the reclamation of abandoned mine lands. During 1983, construction grants for seven abandoned mine reclamation projects were awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining. These grants provide \$1,136,723.00 for the reclamation of approximately 120 acres of abandoned mine lands and waters in Allegany and Garrett Counties, Maryland.

Projects Under Construction During 1983

1. Amish Road Reclamation Project

Location: Approximately 3 1/2 miles SW of Grantsville along Amish Road, Garrett County.

Scope of Work: Elimination of health and safety hazards posed by an abandoned surface coal mine area adjacent to Amish Road and the unauthorized dumping of garbage in the abandoned mine pit, improve water quality discharge, backfill and regrade spoil, and revegetate.

Project Size: Approximately 60 acres.

Project Cost: \$460,000

Status: Approximately 25% of reclamation completed as of 12-30-83.

Construction is to begin on the other six 1983 grant projects in the Spring of 1984.

Maryland Mine Reclamation Program

Utilizing \$48,100 from the Bituminous Coal Open-Pit Mining Reclamation Fund, (derived from a 9¢ per ton of coal mined surcharge and a \$40 per acre of land surface mined reclamation fee paid by coal operators¹) 30 acres of abandoned mine lands in Allegany and Garrett Counties, Maryland were reclaimed during 1983. An additional \$32,000 for the reclamation of a 14 acre abandoned surface mine was obligated during 1983. Due to inclement weather conditions this project was not completed in 1983, but is expected to be completed by June, 1984.

¹Effective July 1, 1983, the \$40 per acre of land mined reclamation fee was increased to \$75 per acre.

Projects Completed During 1983

1. Franklin Gob Pile Reclamation Project

Location: Franklin, Allegany County, located adjacent to Old Route 36 in the community of Franklin.

Scope of Work: Elimination of deep mine coal refuse area; remove, haul and dispose of poor quality coal refuse, regrade area, topsoil and revegetate.

Project Size: Approximately 1 acre.

Project Cost: \$7,650.00

Several small seeps have remained within the project area. These areas are inhibiting vegetative growth. If seeps are still a problem in summer of 1984, french drains will be installed to alleviate problem drainage.

2. Mt. Zion Road Reclamation Project

Location: Mt. Zion Road, near Swanton, Garrett County, located adjacent to Masteller JT-1 Deep Mine Operation.

Scope of Work: Elimination of abandoned surface coal mine highwall and pit area; backfill and regrade highwall area and revegetate.

Project Size: Approximately 7 acres.

Project Cost: \$10,500.00

Revegetation accomplished in late fall.

3. Stanton Mine Blowout Reclamation Project

Location: Jennings, Garrett County, located near Fire Clay Road, adjacent to Action Mining Permit 272.

Scope of Work: Redirection of abandoned deep mine drainage, away from Stanton family water supply; install diversion ditch to direct mine

drainage, rip-rap erosion areas, regrade
blown out area, and revegetate.

Project Size: Approximately 1 acre.

Project Cost: \$950.00

4. Oakland Coal Company Special Reclamation Project

Location: Near Taskers Corner, Garrett County, adjacent to
Potomac Camp Forest Road.

Scope of Work: Backfill and regrade abandoned mine area;
backfill existing void areas, regrade spoil
materials, revegetate.

Project Size: Approximately 18 acres.

Project Cost: \$29,000

Project Started in 1983 - Completed in Spring, 1984

1. Franklin Bakerstown Special Reclamation Project

Location: Franklin, Allegany County.

Scope of Work: Elimination of abandoned surface mine area
and control of stormwater runoff; backfill
and regrade highwall and pit area, topsoil
and revegetate.

Project Size: Approximately 14 acres.

Project Cost: \$32,000

Project has been idled due to poor weather conditions,
approximately 10% complete.

FOR CALENDAR YEAR 1983

DEEP MINE

MINE FOREMAN AND FIRE BOSS
EXAMINATIONS AND CERTIFICATONS

The number of Mine Foreman and Fire Boss examinations conducted from 1974 through 1983 are identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
1983	1	26	1	21
1982	11	60	7	20
1981	0	0	0	0
1980	8	36	3	21
1979	14	28	12	26
1978	30	16	22	16
1977	0	0	0	0
1976	11	0	11	0
1975	0	0	0	0
1974	2	0	1	0

COMPARATIVE ACCIDENT REPORT

Year	Man-Hour Exposure	Tons Produced	Fatals	Lost Time Accidents	Frequency	Fatalities Per Million Man-Hours	Fatalities Per Million Short Tons	Non-Fatal Per Million Man-Hours	Non-Fatal Per Million Short Tons	Tons Per Fatality	Tons Per Non-Fatal Injuries
1983	1,367,297.75	3,086,835.57	0	5	3.65	0	0	3.65	1.61	0	617,367.11
1982	2,085,157.75	3,459,891.66	0	5	2.39	0	0	2.39	1.44	0	691,918.33
1981	2,218,325.69	4,451,559.31	0	82	36.96	0	0	36.96	18.42	0	51,287.30
1980	2,089,982.5	3,760,092.25	0	61	29.18	0	0	29.18	16.22	-	61,640.85
1979	1,855,326.73	2,716,617.07	3	29	15.63	1.61	1.10	14.01	9.51	905,539.02	104,485.27
1978	1,429,612	2,951,321.89	1	24	16.78	.69	.35	16.08	8.06	2,851,321.89	123,970.51
1977	1,373,626.25	3,028,629.66	0	15	10.9	N.A.	0	10.92	4.95	-	201,908.64
1976	1,281,927.5	2,695,178.96	0	4	3.10	N.A.	0	3.10	1.48	-	673,794.74
1975	981,372	2,520,765.27	1	5	5.09	1.01	.39	4.07	1.98	2,520,765.27	630,191.31
1974	697,707.5	2,221,432.94	1	0	N.A.	1.43	.45	0	0	2,221,432.94	N.A.
1973	541,210	1,754,130.93	0	3	5.54	0	0	5.54	1.71	1,754,130.93	584,710.31
1972	520,285	1,638,418.46	0	5	9.61	0	0	9.61	3.05	1,638,418.46	327,683.69
1971	806,056	1,591,677.20	0	6	7.44	0	0	7.44	3.77	1,591,677.20	265,279.53

FOR THE CALENDAR YEAR 1983

ACCIDENT REPORT

COMPANY	PERMIT NUMBER	NUMBER OF NON-FATAL ACCIDENTS	WORKING DAYS LOST	FATAL ACCIDENTS
Masteller Coal Co.	379	1	2	0
Allegheny Mining	277	1	1	0
Tower Resources	Tipple	1	0	0
Mettiki Coal	DM-101	10	548	0
Mettiki Coal	DM-104	8	62	0
Mettiki Coal	DM-105	2	6	0

FOR CALENDAR YEAR 1983

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

Permit No. 51 D.B.&B. Coal Company**
 Permit No. 52 Moon and Sons*
 Permit No. 53 George L. Smith Contracting Company*
 Permit No. 54 The Georges Creek Lumber Company*
 Permit No. 55 Moran Coal Company*
 Permit No. 56 North Branch Coal Corporation*
 Permit No. 57 George Coal Company**
 Permit No. 58 Samuel Compton & Company**
 Permit No. 59 Hoover & White*
 Permit No. 60 Laurel Creek Company, Inc.**
 Permit No. 61 The Eddy Fuel Company**
 Permit No. 62 J.R. Thrasher Contracting & Stripping Co.*
 Permit No. 63 Pittsburgh Coal Company*
 Permit No. 64 Mineral Coal Company, Inc., of West Virginia*
 Permit No. 65 Laurel Creek Company, Inc.*
 Permit No. 66 The Georges Creek Lumber Company*
 Permit No. 67 Chelsie A. Liller*
 Permit No. 68 Casey Contracting Company**
 Permit No. 69 Pine Mountain Coal Company*
 Permit No. 70 Opel and Brenneman*
 Permit No. 71 The Georges Creek Lumber Company*
 Permit No. 72 P.&J. Coal Company*
 Permit No. 73 Casey Contracting Company**
 Permit No. 74 Goodwill Fuel Company*
 Permit No. 75 D.B.&B. Coal Company*
 Permit No. 76 Baughman Contracting Company, Inc.*
 Permit No. 77 P&K Coal Company*
 Permit No. 78 Morgan Contracting Company*
 Permit No. 79 Buffalo Coal Company, Inc.*
 Permit No. 80 Buffalo Coal Company, Inc.*
 Permit No. 81 Randall Robertson*
 Permit No. 82 Hoover & White**
 Permit No. 83 James E. George*
 Permit No. 84 B.M.W. Coal Company, Inc.*
 Permit No. 85 Casey Contracting Company**
 Permit No. 86 Beener Coal Company*
 Permit No. 87 Moran Coal Company, Inc.*
 Permit No. 88 D&K Coal Company*
 Permit No. 89 Brenneman Brothers*
 Permit No. 90 Mack Coal Company*
 Permit No. 91 Clarence Rodamar*
 Permit No. 92 James E. George*
 Permit No. 93 Casey Contracting Company**
 Permit No. 94 Winner Brothers*
 Permit No. 95 Moran Coal Company, Inc.*
 Permit No. 96 Big Vein Coal Company*
 Permit No. 97 Maryland Fuel Company, Inc.*
 Permit No. 98 Yantus-Zubek Coal Company*
 Permit No. 99 J.R. Thrasher Contracting & Stripping Co.*
 Permit No. 100 Trefall Bros., Inc.*
 Permit No. 101 Mack Coal Comany*
 Permit No. 102 C.A. Liller Company*

Permit No. 103 Cross & Brumage Coal Company*
 Permit No. 104 Beener Coal Company*
 Permit No. 105 D&K Coal Company*
 Permit No. 106 Mack Coal Company
 Permit No. 107 Yantus and Zubek*
 Permit No. 108 Potomac Mining Company*
 Permit No. 109 Casey Contracting Company*
 Permit No. 110 Wilhelm Coal Company*
 Permit No. 111 The Georges Creek Lumber Company*
 Permit No. 112 Clark Coal Company*
 Permit No. 113 Casey Contracting Company*
 Permit No. 114 Casey Contracting Company*
 Permit No. 115 Douglas Coal Company*
 Permit No. 116 Red Lion Mining Corporation**
 Permit No. 117 Ebensburg Coal and Clay Company*
 Permit No. 118 James E. George*
 Permit No. 119 Ebensburg Coal and Clay Company*
 Permit No. 120 J.R. Thrasher Contracting & Stripping Co.
 Permit No. 121 Moran Coal Company, Inc.*
 Permit No. 122 Buffalo Coal Company, Inc.*
 Permit No. 123 J.R. Thrasher Contracting & Stripping Co.*
 Permit No. 124 Win-More Mining & Construction Co., Inc.*
 Permit No. 125 Beener Coal Company*
 Permit No. 126 W.R. Nethken and Company, Inc.*
 Permit No. 127 Mack Coal Company*
 Permit No. 128 J.R. Thrasher Contracting & Stripping Co.*
 Permit No. 129 J. Russell Cravener*
 Permit No. 130 Chelsie A. Liller*
 Permit No. 131 The Georges Creek Lumber Company*
 Permit No. 132 Brenneman Brothers*
 Permit No. 133 W.R. Nethken and Company, Inc.*
 Permit No. 134 Richards and Parnell Coal Company*
 Permit No. 135 William Brashear*
 Permit No. 136 W.R. Nethken and Company, Inc.*
 Permit No. 137 G&S Coal Company, Inc.
 Permit No. 138 J.R. Thrasher Contracting & Stripping Co.*
 Permit No. 139 J.R. Thrasher Contracting & Stripping Co.*
 Permit No. 140 Shallmar Coal Company, Inc.*
 Permit No. 141 Randall Robertson***
 Permit No. 142 Ace Drilling Coal Company, Inc.*
 Permit No. 143 Beener Coal Company
 Permit No. 144 Clarence Rodamer*
 Permit No. 145 Ginniman Coal Company*
 Permit No. 146 Raymond A. Wolf Mining Company*
 Permit No. 147 Menallen Coke Company*
 Permit No. 148 Russel Shafer*
 Permit No. 149 Homage Coal Co. (Emmett Duppstadt)*
 Permit No. 150 Twin States Coal Company**
 Permit No. 151 M.F. Fetterolf Coal Company, Inc.
 Permit No. 152 Ebensburg Coal and Clay Company**
 Permit No. 153 Raymond A. Wolf Mining Co. (UPRC)*
 Permit No. 154 Michael Rostosky*

Permit No. 155 Ginniman & Ware Coal Company*
 Permit No. 156 Harold H. Upole Coal Company*
 Permit No. 157 T.G.&C. Coal Company, Inc.*
 Permit No. 158 Clarence Rodamer Coal Company*
 Permit No. 159 Michael Rostosky Coal Company*
 Permit No. 160 Russel Shafer Coal Company*
 Permit No. 161 Buffalo Coal Company, Inc.*
 Permit No. 162 J.R. Thrasher Contracting & Stripping Co.***
 Permit No. 163 Buffalo Coal Company, Inc.*
 Permit No. 164 Union Coal Company*
 Permit No. 165 Win-More Mining & Construction Co., Inc.*
 Permit No. 166 Ginniman Coal Company*
 Permit No. 167 Upperman Coal Company*
 Permit No. 168 Frank Pulford*
 Permit No. 169 Winner Bros. Coal Company, Inc.*
 Permit No. 170 Russel Shafer*
 Permit No. 171 The Chief Coal Company*
 Permit No. 172 Mary Ruth Corporation*
 Permit No. 173 Oakland Coal Company
 Permit No. 174 Bernard C. Drees*
 Permit No. 175 Delta Mining, Inc.*
 Permit No. 176 D&K Coal Company, Inc.*
 Permit No. 177 T.G.&C. Coal Company, Inc.*
 Permit No. 178 Emmett Dupstadt
 Permit No. 179 Somerset Excavating, Inc.*
 Permit No. 180 Ayers Coal Company*
 Permit No. 181 Delta Mining, Inc.*
 Permit No. 182 Winner Bros. Coal Company, Inc.
 Permit No. 183 Chief Coal Company*
 Permit No. 184 Eckhart Coal Company
 Permit No. 185 Bessemer Iron & Coal Company*
 Permit No. 186 Coal Lick Coal Company*
 Permit No. 187 Phillips Big Vein Coal Company
 Permit No. 188 Ace Drilling Coal Company, Inc.*
 Permit No. 189 Buffalo Coal Company, Inc.*
 Permit No. 190 Buffalo Coal Company, Inc.*
 Permit No. 191 Keystone Coal and Development Company
 (Liability Assumed by Garrett County
 Roads Department)
 Permit No. 192 Ace Drilling Company, Inc.*
 Permit No. 193 Wilhelm Coal, Inc.
 Permit No. 194 M.F. Fetterolf Coal Company, Inc.***
 Permit No. 195 Buffalo Coal Company, Inc.*
 Permit No. 196 Besemer Iron & Coal Company*
 Permit No. 197 Grafton Coal Company*
 Permit No. 198 Jet Fuel Coal Company*
 Permit No. 199 Bessemer Iron & Coal Company
 Permit No. 200 Chief Coal Company*
 Permit No. 201 Brashear Coal Company*
 Permit No. 202 Winner Bros. Coal Company, Inc.
 Permit No. 203 Mary Ruth Corporation*
 Permit No. 204 Grafton Coal Company*

Permit No.	205	Chief Coal Company*
Permit No.	206	Upperman Coal Company
Permit No.	207	Winner Bros. Coal Company, Inc.
Permit No.	208	Sanner Bros. Coal Company*
Permit No.	209	Delta Mining, Inc.*
Permit No.	210	Markat, Inc.*
Permit No.	211	Oakland Coal Company*
Permit No.	212	Bessemer Iron & Coal Company*
Permit No.	213	Delta Mining, Inc.
Permit No.	214	Inter-State Lumber Company*
Permit No.	215	Buffalo Coal Company, Inc.
Permit No.	216	Brashear Coal Company***
Permit No.	217	Bernard Drees Coal Company*
Permit No.	218	Buffalo Coal Company, Inc.*
Permit No.	219	G&S Coal Company, Inc.*
Permit No.	220	Evans Coal Company*
Permit No.	221	Brideview Coal Company*
Permit No.	222	John Duckworth Coal Company*
Permit No.	223	Edward Mikel*
Permit No.	224	Delta Mining, Inc.*
Permit No.	225	Northwest Coal Company, Inc.*
Permit No.	226	Thrasher Coal Company**
Permit No.	227	Winner Bros. Coal Company, Inc.*
Permit No.	228	Bittinger Coal Company*
Permit No.	229	Charles M. Filsinger*
Permit No.	230	G&H Coal Company, Inc.*
Permit No.	231	Hi-Note, Inc.
Permit No.	232	Buffalo Coal Company, Inc.*
Permit No.	233	Oliver Mining Company
Permit No.	234	Clise Coal Company
Permit No.	235	Markat, Inc.*
Permit No.	236	Delta Mining, Inc.*
Permit No.	237	Bridgeview Coal Company*
Permit No.	238	Burnham Coal Company, Inc.*
Permit No.	239	Highland Mining
Permit No.	240	Buffalo Coal Company, Inc.
Permit No.	241	Buffalo Coal Company, Inc.*
Permit No.	242	Hopwood Strip Mine, Inc.**
Permit No.	243	Ponderosa Coal Company, Inc.*
Permit No.	244	Markat, Inc.*
Permit No.	245	Phillips Coal, Inc.*
Permit No.	246	Lambert Coal Company*
Permit No.	247	Winner Bros. Coal Company, Inc.
Permit No.	248	Buffalo Coal Company, Inc.*
Permit No.	249	Cobra Fuels*
Permit No.	250	Laoc Coal Company*
Permit No.	251	Tower Resources, Inc.
Permit No.	252	Phillips Coal, Inc.*
Permit No.	253	Pine Mt. Coal Company*
Permit No.	254	T.G.&C. Coal Company*
Permit No.	255	Allegheny Mining Company*
Permit No.	256	Bridgeview Coal Company*

Permit No. 257 A&R Coal Company
 Permit No. 258 Clinton Coal Company**
 Permit No. 259 Tower Resources, Inc.
 Permit No. 260 Yough Tree Farm*
 Permit No. 261 Russel Shafer***
 Permit No. 262 Northwest Coal Company**
 Permit No. 263 Allegheny Mining Corporation*
 Permit No. 264 Brashear Coal Company
 Permit No. 265 Bittering Coal Company
 Permit No. 266 Delta Mining, Inc.*
 Permit No. 267 Bittering Coal Company
 Permit No. 268 Clyde Marsh Coal Company
 Permit No. 269 Hungry Hollow Coal Company*
 Permit No. 270 Delta Mining, Inc.
 Permit No. 271 A&R Coal Company*
 Permit No. 272 Action Mining, Inc.
 Permit No. 273 Win-More Mining & Construction
 Permit No. 274 Evans Coal Company*
 Permit No. 275 Buffalo Coal Company, Inc.*
 Permit No. 276 Buffalo Coal Company, Inc.
 Permit No. 277 Allegheny Mining Corporation
 Permit No. 278 Inter-State Lumber Company*
 Permit No. 279 Buffalo Coal Company, Inc.
 Permit No. 280 Delta Mining, Inc.
 Permit No. 281 Rondell Company*
 Permit No. 282 Phillips Coal, Inc.*
 Permit No. 283 G&H Coal Company, Inc.*
 Permit No. 284 Tower Resources, Inc.*
 Permit No. 285 Clinton Coal Company**
 Permit No. 286 T.G.&C. Coal Company
 Permit No. 287 T.L. Moran, Inc.
 Permit No. 288 Delta Mining, Inc.*
 Permit No. 289 Pine Mt. Coal Company
 Permit No. 300 Garbart Coal Company*
 Permit No. 301 Pine Mt. Coal Company*
 Permit No. 302 L.C. Coal Company, Inc.*
 Permit No. 303 Ginniman Brothers Coal Company**
 Permit No. 304 Buffalo Coal Company, Inc.
 Permit No. 305 Wood Products, Inc.*
 Permit No. 306 Bridgeview Coal Company*
 Permit No. 307 T.L. Moran, Inc.
 Permit No. 308 Best Coal Stripping, Inc.
 Permit No. 309 Delta Mining, Inc.
 Permit No. 310 Oakland Coal Company
 Permit No. 311 Primrose Coal Company*
 Permit No. 312 R.A.K. Coal Company, Inc.**
 Permit No. 313 G&S Coal Company*
 Permit No. 314 Wilhelm Coal, Inc.
 Permit No. 315 Clise Coal Company
 Permit No. 316 Brawal Mining, Inc.
 Permit No. 317 John R. Livingston**
 Permit No. 318 T.G.&C. Coal Company

Permit No. 319 John Duckworth Coal Company*
 Permit No. 320 Kelley Enterprises
 Permit No. 321 Delta Mining, Inc.
 Permit No. 322 Bridgeview Coal Company*
 Permit No. 323 Ayers Coal Company
 Permit No. 324 John Duckworth Coal Company
 Permit No. 325 G&S Coal Company, Inc.
 Permit No. 326 Buffalo Coal Company, Inc.
 Permit No. 327 Buffalo Coal Company, Inc.
 Permit No. 328 Buffalo Coal Company, Inc.
 Permit No. 329 Winner Bros. Coal Company, Inc.
 Permit No. 330 Inter-State Lumber Company
 Permit No. 331 R.A.K. Coal Company***
 Permit No. 332 Seneca Mining Company
 Permit No. 333 Westvaco Resources, Inc.
 Permit No. 334 Buffalo Coal Company, Inc.
 Permit No. 335 Inter-State Lumber Company
 Permit No. 336 Inter-State Lumber Company
 Permit No. 337 Commonwealth Coals, Inc.
 Permit No. 338 Oliver Mining Company
 Permit No. 339 Wilhelm Coal, Inc.
 Permit No. 340 Fetterolf Mining, Inc.
 Permit No. 341 Eastern Mining Systems, Inc.
 Permit No. 342 Primrose Coal Company
 Permit No. 343 L.C. Coal Company
 Permit No. 344 Bridgeview Coal Company*
 Permit No. 345 Delta Mining, Inc.
 Permit No. 346 Inter-State Lumber Company
 Permit No. 347 Kelley Enterprises*
 Permit No. 348 Schwinabart & Green, Joint Venture
 Permit No. 349 Wilhelm Coal, Inc.
 Permit No. 350 Bridgeview Coal Company
 Permit No. 351 Winner Bros. Coal Company, Inc.
 Permit No. 352 John Duckworth Coal Company
 Permit No. 353 Winner Bros. Coal Company, Inc.
 Permit No. 354 Brawal Mining, Inc.
 Permit No. 355 Wilhelm Coal, Inc.
 Permit No. 356 G&S Coal Company, Inc.
 Permit No. 357 Richard Duckworth Coal Company
 Permit No. 358 Bridgeview Coal Company
 Permit No. 359 Buffalo Coal Company, Inc.
 Permit No. 360 Buffalo Coal Company, Inc.
 Permit No. 361 Pamela Mines, Inc.
 Permit No. 362 Alpha Mining, Inc.
 Permit No. 363 Pamela Mines, Inc.
 Permit No. 364 John Duckworth Coal Company
 Permit No. 365 G&S Coal Company, Inc.
 Permit No. 366 Buffalo Coal Company, Inc.
 Permit No. 367 Buffalo Coal Company, Inc.
 Permit No. 368 Winner Bros. Coal Company, Inc.
 Permit No. 369 Bittinger Coal Company
 Permit No. 370 Keystone Coal Company

Permit No.	371	Tower Resources, Inc.
Permit No.	372	John Duckworth Coal Company
Permit No.	373	Commonwealth Coals, Inc.
Permit No.	374	T.G.&C. Coal Company
Permit No.	375	Win-More Mining & Construction Company
Permit No.	376	Jones Coal, Inc.
Permit No.	377	Oakland Coal Company
Permit No.	378	Tower Resources, Inc.***
Permit No.	379	Masteller Coal Company
Permit No.	380	Fairview Coal Company
Permit No.	381	Richard Duckworth Coal Company
Permit No.	382	Pine Mt. Coal Company
Permit No.	383	Oakland Coal Company
Permit No.	384	Evans Coal Company
Permit No.	385	Jones Coal, Inc.
Permit No.	386	Jones Mining, Inc.
Permit No.	387	Hilltop Construction Company
Permit No.	388	Fetterolf Mining, Inc.***
Permit No.	389	Tower Resources, Inc.***
Permit No.	390	C.J. Merlo, Inc.
Permit No.	391	Oak Springs Coal Company

DEEP MINES

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

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