CALENDAR YEAR 1997

SEVENTY-FIFTH ANNUAL REPORT

of the

MARYLAND BUREAU OF MINES



HON. PARRIS N. GLENDENING Governor of Maryland

DEPARTMENT OF THE ENVIRONMENT JANE T. NISHIDA, Secretary

WATER MANAGEMENT ADMINISTRATION J. L. HEARN, Director

> MINING PROGRAM C. EDMON LARRIMORE, Director

> > BUREAU OF MINES JOHN E. CAREY, Director



MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Parris N. Glendening Governor Jane T. Nishida Secretary

Neter Management Administration Burges of Mines 160 South Mater Street * Frostburg, Maryland 21533 Telephone: (301)656-6106

A MESSAGE FROM THE SECRETARY

Protecting and restoring Maryland's environment requires the participation and cooperation of all members of society, including businesses, citizens, and all levels of government. MDE's primary mission is to protect and restore the quality of Maryland's air, water and land resources for the benefit of the environment, public health and future generations, while also supporting and balancing economic development to ensure an excellent quality of life for all Marylanders. We believe that a strong economy and a clean environment, not only go hand-in-hand, but are mutually reinforcing. The information in this publication is designed to increase your understanding of our programs.

Jane T. Nishida

TTY Users 1-800-735-2258 via Maryland Relay Service

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EXECUTIVE SUMMARY

During Calendar Year 1997, Maryland operators produced 4,156,651 tons of coal. Surface coal mine production was 882,483 tons-614,589 in Allegany County and 267,894 in Garrett County. Deep coal mine production was 3,274,188, all in Garrett County.

During calendar year 1997, two new permits were issued and 6 permit amendments were issued. Two hundred seventy-nine acres were permitted.

One hundred thirty-two acres were affected, 228 acres backfilled, and 224 acres planted. Bond was released on 148.5 acres. Seven permits were completed, with bond being totally released. There were no permits forfeited.

Nine hundred ninety inspections were performed on coal mining operations. Eleven Notices of Violations were issued. Seven Citizen Complaints were received and investigated.

The Land Reclamation Committee met 6 times and approved 1 reclamation plan. The Committee also evaluated the revegetation on 278 acres eligible for Phase II bond release and approved 165 acres as meeting the standards for release.

During 1997, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provided \$2,584,375 for the reclamation of abandoned mine lands. Approximately 82 acres of abandoned mine lands were reclaimed.

FOR CALENDAR YEAR 1997

MINING PROGRAM

C. Edmon Larrimore. Director, Mining Program

Laboratory and Administrative Services

 Ruth D. Booth.
 Administrator

 Robert Harris.
 Office Secretary II

 Sallie A. Shuman
 Administrative Specialist II

 Mary Lynn Pegg
 Laboratory Scientist V

 Julie O'Connor
 Chemist III

BUREAU OF MINES

John E. Carey. Director, Bureau of Mines

Coal Permitting Section

Stephen M. Layton.	•					, Section Chief
Mark Carney					Water	Resources Engineer III
Alan V. Hooker						Administrator II

Land Restoration Section

John C. Eilers , .					Section Chief
Michael P. Garner.					.Energy Resources Officer IV
Tobias C. Joy					. Energy Resources Officer I
Bradley Nee					Water Resources Engineer III

Water Restoration Section

Constance A. Ly	ona		•	•	•	•	Energy Resources Officer III
Edward Lyons .							Conservation Associate
Joseph E. Mills							Environmental Specialist IV

Revegetation Section

	L. Baglev		Administrator II
--	-----------	--	------------------

Mining Inspection and Compliance

Raymond Karlstrand						Field Supervisor
Larry Johnson						Environmental Inspector II
Thomas P. Murray .						Environmental Inspector II

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FOR THE CALENDAR YEAR 1997

REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 1997 totalled 4,156,651.37 tons. Production for 1997 represents an increase of 193,798.10 tons from the 1996 production of 3,962,853.27 tons.

SUMMARY OF 1997 STATISTICS'

COAL PRODUCTION

Mining Method	Allegany County	Garrett County	Total
Strip	614,588.94	267,894.42	882,483.36
Deep	.00	3,274,188.01	3,274,188.01
Auger	.00	.00	.00
TOTALS	614,588.94	3,542,082.43	4,156,671.37

EMPLOYEES"

Type of Mine	Allegany County	Garrett County	Total
Deep	0	309	309
<u>Strip</u>	163	54_	217
TOTALS	163	363	526

Reports submitted by Maryland mining operators.

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

FOR THE CALENDAR YEAR 1997 TONNAGE BY COAL SEAMS

Allegany County

Waynesburg																		4.467.28
Sewickley (Tyso	n)	٠	٠	٠	٠	•	•	٠	٠	٠	٠	٠	٠	•	٠	٠	·	21,197.50
Redstone		•	•	•	•					•	•	•	•		•	•		100,245.03
Pittsburgh		•	•															342,220.42
Morantown				•														43,342.71
L. Pittsburgh .																		20,276.82
Franklin																		41,159.18
Harlem																		0
Bakerstown															΄.			1,500.00
Freeport																		0
Kittanning																		0
Federal Hill																		0
Barton																		0
					•	TO?	ra i	G.,										614,588.94

Garrett County

Sewickley														187.38
Pittsburgh														9,273.45
Morantown														9,744.40
L. Pittsburgh	ì													14,883.94
Franklin														41,792.62
Barton														912.05
Elk Lick														0
Harlem														0
Bakerstown.														302,708.00
Brush Creek .														0
Freeport														3,069,444.58
Kittanning														92,433.08
Redstone														682.93
Reabcone	•	•	•	•	•	•						:		3,542,062.43
									•	•				J/JIA/V/A.13

TONNAGE BY BASIN

Lower Youghiogheny	0
Upper Youghiogheny	0
Casselman	0
Casselman (Cherry Creek)	0
Potomac	3,494,971.78
George's Creek	661,679.59
TOTAL	4,156,651.37

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HISTORICAL COAL PRODUCTION BY COUNTY AND TYPE OF MINING

	ALLECANY CO				CARRETT CO.		STATE
TEAR	STRIP.	DERP	TOTAL	STRIPS	DERP	TOTAL	TOTAL
1997	614,588.94	;	614,588.94	267,874.42	3,274,188.01	3, 542, 062, 43	4,156,651.3
1996	599, 799.11	:	599,799.11	176,706.53	3,106,347.63	3,363,054,16	3.962.853.2
1995	633,185.42	:	633,185.42	147,775.51	2,848,570.41	2,996,345.72	3.629.531.3
1994	631,249.25	1	631, 249. 25	165,890.01	2,803,048.97	2,968,938,98	3 600 188 2
1993	507,668.57	:	507,668.57	341,867.55	2,507,016.83	2,848,884.38	3.356.552.9
1992	698,015.37	;	698,015.37	357,935.69	2,383,314.12	2,741,249.81	3, 439, 265, 11
1991	781,671.55	:	781,671.55	378,832.57	2,542,364.32	2,921,196.89	3, 702, 868, 44
0661	1,056,810.54	:	1,056,810.54	457,300.32	1,999,527.34	2,456,827.66	3,513,630.2
1989	867,025.49	•	867,025.49	675,160.16	1, 826, 443. 65	2,501,603.81	3,368,629.30
1988	562,139.94	-	562, 139.94	642,948.91	2,014,828.42	2,657,777.33	3,219,917.27
1987	790,903.09	1 .	790,903.09	810,166.55	2,332,554.30	3,142,720.85	3,933,623.9
1986	696,377.39		696,377.39	786,429.97	2,572,505.11	3,358,935.08	4,055,312.4
1985	543,960.99	;	543,960.99	676,274.41	1,842,595.67	2,518,870.08	3,062,831.0
1964	730, 135.35	1	730,135.35	1,145,507.03	2,117,657.44	3,263,164.47	2,993,299.62
E861	568,716.82	{	568,716.82	981,550.36	1,536,568.39	2,518,118.75	3,086,835.57
1982	814,102.63	:	814,102.63	1,058,360.96	1,587,428.07	2,645,789.03	3.459,091.6
1981	1,275,576.42	{	1,275,576.42	1,272,911.65	1,903,071.24	3,175,982.89	4,451,559.3
1980	1,122,817.48	!	1,122,817.48	1,143,643.80	1,493,630.97	2, 637, 274. 77	3,760,092.2
1979	761, 655.93	ł	761,655.93	1,067,180.13	887,781.01	1,954,961.14	2, 716, 617.0
1978	1,082,370.39	!	1,082,370.39	1,389,078.89	379,672.61	1,768,951.50	2,051,321.0
1977	1.181.181.1		1 181 181 1	1.586 253 70	36 100 13C	1 947 440 EE	2 000 C30 C

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"Pigure includes coal removed by the suger method.

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COAL PRODUCTION, MINUNG AND RECLAMATION STATISTICS* n. mining, backfing or parting, activity. This table does not include perm mining or reclemation activity occurred. "This table includes all parmits on which there was pr or parmits on which bonds are still haid but no produc

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e of text Parmit Natrice Caal Seen Natrice PRODUCTION (TONS) Arran Arran Arran min (co., Inc. 358 Pathwoyt 349 3,3,51,00 1,1 7,1 7,1 min (co., Inc. 358 Pathwoyt 3,3,51,00 1,1 7,1 7,1 Restriction 261 Pathwoyt 3,3,50,00 0,0<				ALLEGANY COUNTY	UNTY				
Name Worke Worke Deep Deep December December <thdecember< th=""> December December</thdecember<>	Name of	Permit	Coal Seam		RODUCTION (TONS)		Value	MON	Ę
Inc. 328 Pathuph 51,50 10 Imburgh L L 1,555,00 00 K Hommon 20,555,00 00 00 K Hommon 20,555,00 00 00 K Hommon 20,550,00 00 00 K Hommon 3,550,00 00 00 K Hommon 3,550,00 00 00 Monthon 1,500,00 1,500,00 00 00 French 1,500,00 1,500,00 00 00 R Hommon 1,500,00 1,00 1,00 R Hommon 1,500,00 0,00 00 00 R Hommon 1,500,00 1,500,00 00 00 00 R Hommon 1,500,00 1,500,00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	Operator	Number	Worked		958	Augur	Abolad	DeckMed	Į
Instance (1733,00 00 47 Maranteure 20,000 00 48 Patchangh 3,000,00 00 49 Patchangh 3,000,00 00 40 Patchangh 3,000,00 00 41 Fatchangh 1,000,00 00 42 Patchangh 1,000,00 00 43 Patchangh 1,000,00 00 44 284 Patchangh 1,000,00 00 45 Patchangh 0,000 00 00 46 284 Patchangh 1,000,00 00 47 289 Patchangh 1,000,00 00 48 Patchangh 1,000,00 00 00 49 Frankhangh 1,000,00 200 20 213 Wenthout 1,000,00 20 00 214 100 1,000 20 20 00 215 Patchangh 3,000,00 20 <td>Berton Mining Co., Inc.</td> <td>2</td> <td>Pittaburgh</td> <td></td> <td>53,351,00</td> <td></td> <td>5</td> <td>7.0</td> <td>10.0</td>	Berton Mining Co., Inc.	2	Pittaburgh		53,351,00		5	7.0	10.0
Relations 6,720.00 0.0 421 Petaburgh 3,580.00 0.0 421 Petaburgh 3,580.00 0.0 42 Petaburgh 3,580.00 0.0 43 Frentin 3,580.00 10 44 Petaburgh 1,500.00 10 5 Petaburgh 1,500.00 10 5 Petaburgh 1,500.00 10 5 Petaburgh 1,500.00 10 5 Petaburgh 0,00 10 5 Petaburgh 1,500.00 10 5 Petaburgh 1,500.00 10 5 Petaburgh 1,500.00 20 6 Petaburgh 1,500.00 20 7 Petaburgh	:		L. Princhurgh		15,663,00		00	8	0.0
Alternationer 20,556,00 00 Alternationer 3,259,00 900 Maranticuer 3,259,00 900 Maranticuer 3,259,00 900 Maranticuer 3,259,00 900 Maranticuer 3,259,00 900 Primatin 46,481,44 1,9 Primatin 46,481,44 0,0 Primatin 46,481,44 0,0 Primating 1,500,00 90 Primating 46,481,44 0,0 Primating 1,500,00 90 Primating 1,500,00 90 Primating 1,500,00 90 Primating 1,200,20 2,0 Primating 1,200,20 2,0 Primationer 1,200,20 2,0 Primationer 1,1,200,24 2,0 Primationer 1,000,54 0,0 Primationer 1,000,54 0,0 Primationer 1,000,54 0,0 Primationer 1,000,54	:		Redetone		6,729,00		90	0.0	80
427 Pittolangy Morantism 3250,00 310 4 Zabit Morantism 3,800,00 90 4 Frankingh 3,800,00 90 5 Frankingh 0,00 90 6 Frankingh 0,00 90 7 35 Pittorian 1,500,00 90 7 36 Pittorian 1,500,00 90 7 36 Pittorian 1,500,00 90 7 36 Pittorian 1,500,00 90 7 35 Pittorian 1,500,00 90 7 315 Moratione 1,000,00 20 315 Pittorian 1,000,00 20 20 91 Frankin 1,200,24 200 20 91 Pittorian 1,200,24 20 20 91 Frankin 81,13,34 0.0 20 91 Pittorian 3,000,25 0.0 20 91			Morantown		20,936.00		8	90	90
Momentum 3,80,00 00 at Perturuny 1,400,00 30 Franktin 1,400,00 30 American 1,000,00 30 American 1,000,00 30 American 1,000,00 30 American 1,200,00 30 American 1,1230,4 0.00 American 1,1230,4 0.00 American 1,1230,4 0.00		5	Planturgh		3,239.00		10.	8	8
eff 201 Plankungh 11,800,00 30 Frenkin 6,481,44 0,00 1,9 Xe Beanstoon 1,800,90 1,9 Cr 228 Plankungh 0,00 00 Acc Plankungh 0,00 0,00 00 Acc Plankungh 0,006 00 00 Acc Plankungh 1,000,64 00 00 Accentione 10,006,64 00 00 00 Accentione 11,260,24 2,00 2,00 00 Accentione 11,260,24 2,00 2,00 2,00 Accentione 11,260,24 2,00 2,00 2,00 2,00 Accentione 11,260,24 3,00 2,00			Morantown		3,860.00		8	90	8
French Solution 40,631,44 00 Cir 228 Petholingh 1,600,00 1,0 Cir 228 Petholingh 0,00 00 Locations 1,000,00 0,00 00 Locations 1,000,00 0,00 00 Locations 10,000,64 0,00 00 Locations 10,000,64 0,00 0,00 Locations 11,260,92 2,0 0,00 Locations 11,260,92 2,0 0,00 Locations 1,1260,24 2,0 0,0 Locations 1,1260,162 2,0 0,0 Locations 1,1260,162 2,0 0,0 Locations 1,12,64 0,0 0,0 Locations 1,17,54 0,0 0,0 Locations 3,000,25 0,0 0,0 Locations 1,17,54 0,0 0,0 Locations 3,000,25 0,0 0,0 Locations 3,000,2	Brachmer Coal Mines	Ā	Planturgh		12,600.00		98	3.0	3.0
Meter (Mathematical State) 1,500,00 1,9 Cr. 328 Pertury (Mathematical State) 0,00 0,0 Cr. 328 Pertury (Mathematical State) 0,00 0,0 Admitiona 11,000,654 0,0 0,0 0,0 Admitiona 11,000,654 0,0 0,0 0,0 315 Webreckung 11,000,654 0,0 2,0 0,0 316 Frenktin 0,00 2,0 2,0 0,0 2,0 0,0 164 Frenktin 3,006,254 0,00 2,0 0,0			Franklin		40,181,144		8	90	00
Cit 325 Peritority Instance 0.00 0.0 422 Peritority Instance 11,0005.54 0.0 Assistance 11,0005.54 0.0 315 Wenneckung 17,200.24 3.0 316 Franking 17,200.24 3.0 316 Frankin 17,200.24 3.0 316 Franking 3.006.25 0.0 20 Peritoria 3.006.25 0.0 217.34 0.00 3.006.25 0.0 216 Franking 3.006.25 0.0 216 Franking 3.006.25 0.0 217.34 0.00 3.006.25 0.0 210.34 3.006.25 0.0 0.0 210.35 3.006.25 0.0 0.0 0.0 210.35 3.006.25 0.0 0.0 0.0 0.0 210.35 3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		8	Beitenstown		1,500,00		9]	0.0	8
422 Premiumory Internationa 64,106.04 50 50 Accentiona 11,0006.64 0.0 0.0 Accentiona 11,0006.64 0.0 2.0 315 Webreeckung 11,0006.64 0.0 316 Frenkth 0.00 2.0 164 Frenkth 0.000.254 2.0 164 Frenkth 0.000.254 0.0 177.34 0.000.254 0.0 0.0 164 Frenkth 0.000.254 0.0 0.0 177.34 Non-255 0.00 0.0 0.0 177.34 Non-255 0.00 0.0 0.0 177.34 Non-255 0.00 0.0 0.0	Buttitio Coal Co., the	ă	Pitteburgh		000		00	20	2
Relations Relations 10,006.54 0.0 Marmilum 11,001.02 0.0 0.0 315 Servicity 17,250.24 3.0 316 Frankin 0.00 2.0 316 Frankin 0.00 2.0 104 Frankin 0.00 2.0 108 Plathurgh 3,080.25 0.0 Morrentum 1,173.94 0.0 Ratitions 3,680.25 0.0 Restitions 3,680.26 0.0 Restitions 3,680.26 0.0 Restitions 3,690.26 0.0 Restitions 3,690.26 0.0 Restitions 3,690.26 0.0 Restitions		đ	Pertury		56,106.04		3	38.0	28.0
Monnthom 11,061,02 0.0 213 Whymerburg 17,250,34 3.0 315 Semicitary 17,250,34 3.0 164 Frankin 677,74 0.0 164 Frankin 677,74 0.0 164 Frankin 3,060,25 0.0 164 Frankin 3,060,25 0.0 Monnecus 1,173,54 0.0 0.0 Redutions 3,060,25 0.0 0.0 0.0 Redutions 3,000,10 2,04 0.0 0.0 0.0			Redstone		10,006.54		0.0	80	0.0
213 Weyneeburg 11,250,24 3.0 316 Semicity 0.00 2.0 164 Frankin 0.00 2.0 280 Prankungh 3,056,25 0.0 164 Frankungh 3,056,25 0.0 164 Frankungh 3,056,25 0.0 164 Frankungh 3,056,25 0.0 165 Prankungh 3,173,54 0.0 1715,54 0.0 0.0 0.0 Manusukung 3,173,54 0.0 0.0 Actione 3,173,54 0.0 0.0 Manusukung 3,173,54 0.0 0.0 Actione 27,367,04 0.0 0.0			Marantoan		11,001.02		8	80	8
315 Semucitary 0.00 2.0 164 Frankin 877.74 0.0 300 Pittuburgh 3,056.25 0.0 Monencem 1,173.54 0.0 Redictore 3,056.25 0.0 Redictore 3,056.25 0.0 Redictore 3,050 0.0 end 41 Wenneutreg 27,367.04 3.0 end 27,367.04 0.0 0.0	Cline Coal Co., Inc.	213			17,250.24		3.0	9.0	9
164 Franktin 877.74 0.0 300 Pttuburgh 3,058.25 0.0 Manufacture 3,058.25 0.0 Manufacture 3,173.4 0.0 Redictore 3,173.54 0.0 Redictore 2,137.54 0.0		315	Semicitary		00'0		2.0	9.9	<u>10.0</u>
300 Pitchurgh 3,000.25 0.0 Maranhown 1,173.34 0.0 Redatione 3,600.32 0.0 Redatione 3,600.32 0.0 Maranhown 1,173.34 0.0 Redatione 3,600.32 0.0 Maranhown 27,397.04 3.0 Beaudiday 0.0 0.0	Cobre Mining, Inc.	1 1 1	Franklin		611.24		0.0	0.0	8
Maramanan 1,173,54 0.0 Receive 3,600.38 0.0 and 411 Wayneeburg 27,397,04 3.0 Beardiay 0.00 0.0	Fairview Coal Co.	ġ	Principal		3,000,25		0.0	0.0	0.0
минортина 411 Мауленские 3,000,35 0.0 еминортина 411 Мауленские 27,367.04 3.0 Вениские 0.00 0.0			Morenown		1,173.54		0.0	90	0.0
evelopment 411 Whyneedurg 27,397.04 3.0 Seencladey 0.00 0.0			Reditione		3,606.38		8	00	8
Semicitiey 0.0	Jeniáns Development	411	Wayneeburg		27,397.04		3.0	3.0	3.0
	Co, the		Semiciday		0.0		0.0	0.0	0.0

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Name of		Coel Seem		PRODUCTION (TOMS)		Acres	Į	Į
Operator	Number	Worked	e Z	giris	MOR	Allected	Beckfied	Į
Petrict Mining Co., Inc.	36	Pertury		000		P	3	3
The Marine are	419	Performan	1	20.443.95		5	See Garrell Courty	2
				1.623.62		3	90	
				5.400.62		9	8	3
				AAMAS		90	00	3
		Southery .		12,284.51		00	0.0	3
Allow Allow Advince A	E	- Handling		4.457.25		3	8	3
Cont. No.				3,910,43		00	8	3
		Constant of the local division of the local		136.36		8	8	3
		Maraham		636.11		3	8	3
				203.00		2	4	3
		Monthown		138.42		3	3	3
		Redutore		1,122.46		00	99	8
Without Bross. Cost Co.,	ę							ar 1
ł		Rectations.				80	0.0	3
		Semicity		2,872,65		8	8	3
	102	(Company)		1,700,1		8	đ	<u>5</u>
	20	Party of the local division of the local div		CO.PTO.AG		10	0,0 1	ş
		Section 1		5,003.05		8	90	3
		Redetorie		26,320.99		8	9	3
	218	Semicitary		80		8	8	3
	2	Pre-		19,050.80		3	9	3
		Pedatone		4,000.0		9	9	3
	2	Rectange -		3,240.45		8	8	3
	104	Pinteral P		10,000.40		5	00	8
		Section 2		01 W		8	00	3
		Rectange		16,041 44		3	3	3
	44	Pinteral A		2,000.41		0.0	0.0	3
		Redetone		14,907.40		8	8	3
THEM ALLEGAMY COUNTY			800	0 014.500.04	000	01.0	10M.0	101.5

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CALENDAR YEAR 1967 COAL PRODUCTION, MINING AND RECLANATION STATISTICS*

3 g ar plending sclivity. This table dt Ion activity occurred. on, mining, back ē "This table includes all permits on which first w or permits on which bonds are all had but no

GARRETT COUNTY

Nume of	Į	Coal Settin	PRODUCTION (TONS)		WEN	W	VON
Operator	Ninter	Worted	Creation Strip	Auger	Mecha	Beckfilled	Į
Buffato Coal Co., Inc.	1	Million of the second s	94-051,2 96-014-001		23	90	88
					:		
	\$ 1	France					
	•		SACT,NS		8	90	9
	ą	Ficklin	23,544,19		Ģ	7.0	7.0
Mesterfler Coul Co.	Duri 10	Kimming	62,508,19		8	0.0	0.0
Madillai Court Corp.	DMHOH	Freeport	2,906,860,822	-	00	9.6	8.0
Petriot Mining Co., Inc.	CMHOR	Contractioners	302,708.00		90	90	90
Physical Co., Inc.	10	Planturgh	531159219		8	90	90
		Norento-in Redetione	4,458,10 107,95		00 00	00	00
Tel-Star Maring, Inc.	613	Plateburgh.		;	19.0	280	24.0
ć		L Plantary	10,006.17	_	90	00	00
		Morentown	5,286.30	_	8	9	90
		Beneficiary	37 (2)		8	8	90
		Fledens	14°74/5		9	8	00
	8	U.Freepart	40,520,54	_	10.0	6.0	6.0

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Name of	A MA	Coal Seem	PRO	DUCTION (TONS)		VUN	Ver	
Counter	Number	Worked	Deep	dig.		Affected	BeckBed	Part of the second seco
Tit Circuit Marine Inc.	×.			4.018.77		0.9	6.0	6.9
)			912.05		00	0.0	90
				1.011.11		90	0.0	9.0
	\$	Franklin		10,337,32		18.O	4.0	4
J. Within Warned	410	Beherziown		0.0		3.0	15.0	16.0
TOTAL GANNETT COUNTY TOTAL ALLEGANY COUNTY			3,274,1 89 ,01 0.00	267,804.42 814,508.94	0.00	00,17 0,18	124.00 104.0	122.00 101.5
					w c	1000	278.0	2225

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FOR CALEDAR YEAR 1997 SUMMARY OF LAND MINED, BACKFILLED, AND FLANTED IM 1997 (By Geological Basin)

			ACRES THIS YEAR		
					Bond
	Permitted	Affected	Backfilled	Planted	Released*
Allegany County:					
Georges Creek Basin	24.00	61.00	104.00	101.50	16.50
Garrett County:					
Georges Creek Basin	76.00	43.00	45.00	43.00	49.00
Potomac River Basin	179.00	28.00	79.00	00.01	83.00
Casselman River Basin"	0.00	0.00	0.00	0.00	0.00
Cherry Creek Basin	0.00	0.00	0.00	0.00	0.00
Upper Yough Basin	0.00	0.00	0.00	0.00	0.00
Lower Yough Basin	0.00	0.00	0.00	0.00	0.00
TOTAL GARRETT COUNTY	255.00	71.00	124.00	122.00	132.00
TOTAL BOTH COUNTLES	279.00	132.00	228.00	223.50	148.50
Allegany County:					
Georges Creek Basin	6, 199.00	5,091.00	4, 679.47	4,749.30	3, 726.00
Garrett County:					
Georges Creek Basin	2,409.00	2,412.95	2,229.85	2,491.05	2, 351.10
Potomac River Basin	4,266.00	3,260.70	3,433.80	3, 557.70	3, 624.10
Casselman River Basin.*	1,416.60	1,135.00	1,260.50	1,142.20	1,230.80
Cherry Creek Basin**	667.00	671.50	578.90	545.80	659.95
Upper Yough Basin	216.00	157.35	215.35	189.3	261.5
Lower Yough Basin	1, 335.00	CO. 14. CO	1, 135.06	1,078.16	855.40
TOTAL GARRETT COUNTY	10, 309.60	8,551.50	8,853.46	9,004.21	8,982.85
TOTAL ALLEGANY COUNTY	16.808.60	13.642.50	13.532.93	13.753.51	12, 708, 85

*Total Bond Release by the Bureau. **Total Casselman Geological Basin.



FOR CALENDAR YEAR 1997

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SUMMARY OF LICENSES, PERMITS, FORFEITURES, AND COMPLETIONS

1997 0 4 0 9 0 1 1995 0 7 0 1 9 0 1 1995 0 7 0 1 0 1 3 3 1995 0 7 0 1 0 1 3 3 1993 5 6 0 13 2 6 0 3 1993 5 6 0 13 2 6 3 3 1993 2 10 1 16 18 2 3 3 3 3 3 1983 2 1 1 16 1 3 1 3 <td< th=""><th>YEAR</th><th>NEM OPERATORS' LICEENSES ISUED</th><th>NEW SURFACE MINE PERMITS PROCESSED</th><th>NEW DEEP MINE PERMITS PROCESSED</th><th>AMENDED PERMITS PROCESSED</th><th>FORFEITURES</th><th>PERMITS TOTALLY RELEASED</th></td<>	YEAR	NEM OPERATORS' LICEENSES ISUED	NEW SURFACE MINE PERMITS PROCESSED	NEW DEEP MINE PERMITS PROCESSED	AMENDED PERMITS PROCESSED	FORFEITURES	PERMITS TOTALLY RELEASED
	1997	٥	•	0	đ	•	٢
	1996	0	7	0	12	-	Ŀ)
	1995	0	7	•	16	0	•
3 5 6 3 6 3 5 5 3 5 5 3 5	1994	0	10	•	13	7	9
2 3 3 1 2 2 4 1 1 4 1 1 1 1 1 6 1 1 1 1 1 1 7 1 1 1 1 1 1 1 8 1 1 1 1 1 1 1 1 9 1 1 1 1 1 1 1 1 1 1 0 1	1993	S	ę	•	18	7	7
2 10 4 2 3 4 4 5 5 3 4 4 5 5 5 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1992	rî	ſ	1	16	2	Ŀ,
2 4 2 4 4 1 4 1 2 6 4 1 1 2 3 8 1 1 4 1 1 3 1 1 1 1 1 1 1 1 1 <td< td=""><td>1991</td><td>2</td><td>10</td><td>1</td><td>16</td><td>0</td><td>7</td></td<>	1991	2	10	1	16	0	7
4 2 4 2 1 4 5 1 1 4 6 0 8 6 0 0 1 0 1 1 5 0 0 1 1 0 0 1 1 0 0 1 1 0 1 <	1990	2	Ē	1	r,	1	r)
2 1 1 1 2 4 4 4 6 6 6 7 7 7 8 8 6 6 7 7 7 8 8 8 1 7 7 7 8 8 6 6 7 7 8 8 6 6 7 7 7 8 8 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	1989	•	2	٥	7	7	S
1 4 4 4 4 4 4 4 4 4 4 4 6 6 1 3 5 5 6 6 0 1 1 1 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1988	2	1	0	1	6	9
4 6 0 1 1 8 6 0 1 1 1 13 12 0 1 1 1 1 13 12 0 1 1 1 1 1 10 1	1987	1	7	•	n	0	7
8 6 0 13 12 0 8 11 2 6 10 0 7 4 1 1 6 0 7 4 1 1 7 0 8 7 7 4 7 8 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9	1986	•	Q	•	1	1	11
5 13 13 14 15 10 10 10 11 10 11 15 11 15 11 15 10 10 10 10 10 10 10 10 10 11 10 11 11	1985	8	9	•	7	1	S
13 12 0 11 8 11 1 15 0 10 0 1 15 0 6 19 0 19 1 8 7 0 8 5	1984	S	7	•	4	r,	6
8 11 15 10 10 0 11 15 0 6 19 0 19 19 8 7 19 1	E861	13	12	0	11	0	11
I0 0 0 11 1	1982	8	11	1	15	0	16
6 19 0 19 5 1 8 7 0 8 4 1	1981	10	0	0	11	1	16
8 7 0 8 4 1	1980	9	19	٥	19	5	15
	1979	8	7	٥	80	4	61

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FOR THE CALENDAR YEAR 1997 LAND RECLAMATION COMMITTEE

Members:

The following members served on the Land Reclamation Committee during 1997:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES: David Fluke (Chairman), Hazardous and Solid Waste Management Administration Stephen M. Layton, Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES: Ed Golden, Wildlife Division Robert Webster, Forestry Division Robert Davis, Freshwater Fisheries (1/1/97 - 7/1/97) Alan Klotz, Freshwater Fisheries (7/1/97 - present)

CITIZEN REPRESENTATIVES:

June Neder, Allegany County (1/1/97 - 4/30/97) Edgar Harman, Garrett County (7/1/97 - present) Robert Davis, Allegany County (7/1/97 - present)

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: Jerry Duckett Tim Schwinabart

FOR THE CALENDAR YEAR 1997

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 proposed and active mining sites to:

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

During 1997, the Land Reclamation Committee conducted site visits on 6 days. These visits included field reviews of 2 proposed mining sites, 29 revegetation planting reports, 1 abandoned mine land (AML) field review, and 1 special field visit.

The Land Reclamation Committee conducts meetings to:

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

During 1997, the Land Reclamation Committee met 6 times. During these meetings, the Land Reclamation Committee approved 1 reclamation plan, evaluated 278 acres of revegetation eligible for Phase II bond release, approved 165 acres as meeting the standards for release, and approved three land-use changes.

FOR THE CALENDAR YEAR 1997

REVEGETATION OF SURFACE MINED LANDS

A permittee must submit a backfilling and planting report 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 totally released (Phase III) after five years from the approved planting date. The Phase I bond may be released when:

- 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;
- All temporary drainage control structures are removed and the affected area is regraded, seeded and mulched; or all permanent structures are inspected and any deficiencies are repaired;
- With respect to prime farmlands, soil productivity has been returned to the level of yield required;
- Revegetation has been established in accordance with the approved reclamation plan and the standards for success of revegetation have been met; and

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. The Phase III bond on an area may be released 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.

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. During 1997, the Bureau released Phase II bond on 198 acres, Phase III bond on 148.5 acres, and totally released bond on seven permits.

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 1997 ABANDONED MINE LAND RECLANATION

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 Pederal funds available under the Federal Surface Mining Control and Reclamation Act of 1977 (U.S. Public Law 95-87) under the authority of Environment Article, Title 15, 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 (BCOMRF) under the authority of Environment Article, Title 15, Subtitle 5; the Deep Mining Fund under the authority of Environment Article, Title 15, Subtitle 6; and the Mine Reclamation and Water Quality Restoration Loan under the authority of Environment Article, Title 15, Subtitle 7.

Narvland - 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 1997, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provided \$2,584,375 for the reclamation of abandoned mine lands. Approximately 82 acres of abandoned mine lands located in Allegany and Garrett Counties, Maryland were reclaimed during the 1997 calendar year.

AML Projects Under Construction During 1997

1. Vindex Refuse Abandoned Mine Reclamation Project

Location:	Approximately 1.9 miles north of Kitzmiller.
	Garrett County, on the east side of MD State
	Rt. 38, between the towns of East and West
	Vindex.
Size:	74 Acres
Nature:	Reclamation of 74 acres of abandoned surface
	mine to eliminate dangers associated with
	several hazardous water bodies, dangerous
	highwalls, unstable spoil, and hazardous
	garbage, equipment and structures.
Cost :	\$3,174,440.00
Fund Source:	Maryland- Federal AML Fund

2. Waverly Street Landslide Stabilisation Project

Location:	Approximately .5 miles north of Westernport,
	Allegany County, on the west side of Md State
	Rt. 36, just north of Waverly Street.
Size:	6 Acres
Nature:	Stabilization of a landslide located within
	the right-of-way of MD State Rt. 36, to
	eliminate health and safety hazards to
	vehicular traffic and adjacent residences.
	The landslide was caused by drainage from an
	abandoned coal deep mine. Construction was
	coordinated for the Bureau of Mines by the MD
	State Highway Administration under a
	cooperative agreement.
Cost:	\$1,830,000.00
	(MDE-WMA-Bureau of Mines Fund - \$365,000)
Fund Source:	Maryland-Federal AML Fund

3. Mets Water Supply Replacement Project

Location:	Approximately .5 miles east of Barton,
	Allegany County, at Dogwood Flats.
Nature:	Replacement of a potable source of drinking
	water to two residences whose wells were
	contaminated by drainage from an abandoned
	coal deep mine. Construction was completed
	for the Bureau of Mines by the Town of
	Lonaconing under a cooperative agreement.
Cost:	\$31,725.00
Fund Source:	Maryland-Federal AML Fund

5. MD State Rt. 135 Landslide Stabilisation Project

Location:	.5 miles west of Bloomington, Garrett County,
	on the east side of MD State Rt. 135.
Size:	1 Acre
Nature:	Stabilization of a landslide located adjacent to and beneath the east bound lane of MD
	State Rt. 135, to eliminate health and safety
	hazards to vehicular traffic and adjacent
	residences. The landslide was caused by
	drainage from an abandoned coal deep mine.
	Construction was coordinated for the Bureau
	of Mines by the MD State Highway
	Administration under a cooperative agreement.
Cost :	\$875,120.00
	(MDE-WMA-Bureau of Mines Funding - \$425,000)
Fund Source:	Maryland-Federal AML Fund

5. Ross/Davis Water Supply Replacement Project

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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 1997

None.

MINING PERMITS ISSUED BY YEAR AND PERMITTEE

FOR CALENDAR YEAR 1997

MINE FOREMAN AND FIRE BOSS EXAMINATIONS AND CERTIFICATIONS

The number of Mine Foremen and Fire Boss applicants examined and certified from 1983 through 1997 are identified below.

YEAR	APPLICANTS	EXAMINED	APPLICANTS	CERTIFIED
1 5414	Mine_Foreman	Fire Boss	Mine Foreman	Fire Boas
1997	18	5	18	5
1996	<u>0</u>	0	4	0
1995	0	Q	14*	٥
1994	24	4	24	4
1993	25	8	25	8
1992	Q	0	5*	0
1991	6	٥	6	٥
1990	19	4	18	4
1989	0	0	25*	0
1988	15	0	11	٥
1987	Q	0	10*	_0_
1986	0	0	25*	٥
1985	0	0	11+	0
1984	Q	0	<u>0</u>	Q
1983		26	11	21

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

INSPECTION AND ENFORCEMENT ACTIVITIES 1993-1997

TYPE OF ACTION	1993	1994	1995	1996	1997
Inspections	1320	1216	1073	991	990
Notices of Violations	63	31	8	5	11
Cessation Orders	27	11	15	0	1
Citizen Complaints	38	36	44	33	7
Bond Forfeitures	2	2	0	1	٥

Permit <u>No.</u>	Year <u>Issued</u>	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*
49	1958	Sara-Ki Coal Company, Inc.*
50	1958	Laurel Creek Company, Inc.**

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Permit	Year			PermitNo	Year <u>Issued</u>	Permittee
<u>No.</u>	Issued	<u>Permittee</u>	1		THOMAS	
51	1958	D.B.&B. Coal Company**		104	1961	Beener Coal Company*
52	1958	Moon and Sons*		105	1961	D&K Coal Company*
53	1959	George L. Smith Contracting Company*		106	1961	Mack Coal Company*
54	1959	The Georges Creek Lumber Company*		107	1961	Yantus and Zubek*
\$5	1959	Moran Coal Company	1	108	1961	Potomac Mining Company*
56	1959	Moran Coal Company* North Branch Coal Corporation*		109	1962	Casey Contracting Company*
57	1959	Coorde Cool Comporation.		110	1962	Wilhelm Coal Company*
58	1959	George Coal Company**	1	111	1962	The Georges Creek Lumber Company*
59	1959	Samuel Compton & Company**	ł	112	1962	Clark Coal Company*
60	1959	Hoover & White*		113	1962	Casey Contracting Company*
61	1959	Laurel Creek Company, Inc.**		114	1962	Casey Contracting Company*
62	1959	The Eddy Fuel Company**		115	1962	Douglas Coal Company*
63		J.R. Thrasher Contracting & Stripping Co.*		116	1962	Red Lion Mining Corporation**
64	1959	Pittsburgh Coal Company*		117	1962	Ebensburg Coal and Clay Company*
	1959	Mineral Coal Company, Inc., of West Virginia*	'	119	1963	James E. George*
65	1959	Laurel Creek Company, Inc.*		119	1963	Ebensburg Coal and Clay Company*
66	1959	The Georges Creek Lumber Company*	1	120	1963	J.R. Thrasher Contracting & Stripping Co.*
67	1959	Chelsie Ä. Liller*	ł	121	1963	Moran Coal Company, Inc.*
68	1959	Casey Contracting Company**	1	122	1963	Buffalo Coal Company, Inc.*
69	1959	Pine Mountain Coal Company*		123		
70	1959	Opel and Brenneman*			1963	J.R. Thrasher Contracting & Stripping Co.*
71	1959	The Georges Creek Lumber Company*		124	1963	Win-More Mining & Construction Co., Inc.*
72	1959	P.&J. Coal Company*		125	1963	Beener Coal Company*
73	1959	Casey Contracting Company**		126	1964	W.R. Nethken and Company, Inc.*
74	1959	Goodwill Fuel Company*	i.	127	1964	Mack Coal Company*
75	1959	D.B.&B. Coal Company*	1	128	1964	J.R. Thrasher Contracting & Stripping Co.*
76	1960	Baughman Contracting Company, Inc.*		129	1964	J. Russell Cravener*
77	1960	P&K Coal Company*		130	1964	Chelsie A. Liller*
78	1960	Morgan Contracting Company*		131	1964	The Georges Creek Lumber Company*
79	1960	Puffalo Coal Company		132	1964	Brenneman Brothers*
80	1960	Buffalo Coal Company, Inc. *		133	1965	W.R. Nethken and Company, Inc.*
81	1960	Buffalo Coal Company, Inc.*	ł	134	1965	Richards and Parnell Coal Company*
82	1960	Randall Robertson*	1	135	1965	William Brashear*
83	1960	Hoover & White**		136	1965	W.R. Nethken and Company, Inc.*
84	1960	James E. George*		137	1965	G&S Coal Company, Inc.*
85		B.M.W. Coal Company, Inc. *		130	1966	J.R. Thrasher Contracting & Stripping Co.*
86	1960	Casey Contracting Company**	•	139	1966	J.R. Thrasher Contracting & Stripping Co.*
87	1960	Beener Coal Company*		140	1966	Shallmar Coal Company, Inc.*
88	1960	Moran Coal Company, Inc. +	,	141	1966	Randall Robertson**
89	1960	D&K Coal Company*		142	1966	Ace Drilling Coal Company, Inc.*
90	1960	Brenneman Brothers*		143	1966	Beener Coal Company*
	1960	Mack Coal Company*	1	144	1966	Clarence Rodamer*
91	1960	Clarence Rodamar*		145	1967	Ginniman Coal Company*
92	1960	James E. George*	ļ	146	1967	Raymond A. Wolf Mining Company*
93	1961	Casey Contracting Company**		147	1967	
94	1961	Winner Brothers*	,	149	1967	Menallen Coke Company* Russel Shafer*
95	1961	Moran Coal Company, Inc. *				
96	1961	Big Vein Coal Company*	i	149	1967	Homage Coal Co. (Emmett Duppstadt) *
97	1961	Maryland Fuel Company, Inc. *	I	150	1967	Twin States Coal Company**
98	1961	Yantus-Zubek Coal Company*		151	1967	M.F. Fetterolf Coal Company, Inc.*
99	1961	J.R. Thrasher Contracting & Stripping Co.*		152	1967	Ebensburg Coal and Clay Company*
100	1961	Trefall Bros., Inc.*		153	1968	Raymond A. Wolf Mining Co. (UPRC) *
101	1961	Mack Coal Comany*	1	154	1968	Michael Rostosky*
102	1961	C.A. Liller Company*	,	155	1968	Ginniman & Ware Coal Company*
103	1961	Cross & Brumage Coal Company*				· •
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			ł	Permit	Year	
Permit	Year		(_No	Issued	Permittee
No.	Issued	Permittee	!	207	1972	Winner Bros. Coal Company, Inc.
156	1968	Harold H. Upole Coal Company*		208	1973	Sanner Bros. Coal Company*
157	1968	T.G.&C. Coal Company, Inc.*		209	1973	Delta Mining, Inc.*
158	1969	Clarence Rodamer Coal Company*		210	1973	Markat, Inc. *
159	1969	Michael Rostosky Coal Company*		211	1973	Oakland Coal Company
160	1969	Russel Shafer Coal Company	i i	212	1973	Bessemer Iron & Coal Company*
161	1969	Buffalo Coal Company, Inc. *	Í	213	1973	Clise Coal Company
162	1969	J.R. Thrasher Contracting & Stripping Co.***	1	214	1973	Inter-State Lumber Company*
163	1969	Buffalo Coal Company, Inc.*		215	1973	Buffalo Coal Company, Inc. *
164	1969	Union Coal Company*	i	216 217	1973 1973	Brashear Coal Company***
165	1970	Win-More Mining & Construction Co., Inc.*		219	1973	Bernard Drees Coal Company*
166	1970	Ginniman Coal Company*		219	1973	Buffalo Coal Company, Inc.* G&S Coal Company, Inc.*
167	1970	Upperman Coal Company*	,	220	1974	Evans Coal Company*
168	1970	Frank Pulford**	1	221	1974	Brideview Coal Company*
169	1970	Winner Bros. Coal Company, Inc.*		222	1974	John Duckworth Coal Company*
170	1970	Russel Shafer*		223	1974	Edward Mikel*
171	1970	The Chief Coal Company*		224	1974	Delta Mining, Inc.*
173	1970	Mary Ruth Corporation*		225	1974	Northwest Coal Company, Inc.*
174	1970	Oakland Coal Company*		226	1974	Thrasher Coal Company**
175	1971 1971	Bernard C. Drees		227	1974	Winner Bros. Coal Company, Inc.*
176	1971	Delta Mining, Inc.*		228	1974	Bittinger Coal Company*
177	1971	D&K Coal Company, Inc. *		229	1974	Charles M. Filsinger*
178	1971	T.G.&C. Coal Company, Inc.*		230	1974	G&H Coal Company, Inc. *
179	1971	Emmett Duppstadt		231	1974	Hi-Note, Inc.*
180	1971	Somerset Excavating, Inc.* Ayers Coal Company*		232	1974	Buffalo Coal Company, Inc.*
181	1971	Delta Mining, Inc.*		233	1974	Oliver Mining Company**
182	1971	Patriot Mining Company, Inc.*		234	1974	Clise Coal Company*
183	1971	Chief Coal Company*		235	1974	Markat, Inc."
184	1971	Cobra Mining		236	1974	Delta Mining, Inc.*
185	1971	Bessemer Iron & Coal Company*		237	1974	Bridgeview Coal Company*
186	1971	Coal Lick Coal Company	,	238	1974	Burnham Coal Company, Inc.*
187	1971	Phillips Big Vein Coal Company*		239	1974	Highland Mining*
188	1971	Ace Drilling Coal Company, Inc.*		240	1974	Buffalo Coal Company, Inc.*
189	1971	Buffalo Coal Company, Inc. *		241	1975	Buffalo Coal Company, Inc.*
1 9 0	1971	Buffalo Coal Company, Inc. *		242	1975	Hopwood Strip Mine, Inc. **
191	1971	Keystone Coal and Development Company		243	1975	Ponderosa Coal Company, Inc.*
		(Liability Assumed by Garrett County	;	244 245	1975 1975	Markat, Inc.*
		Roads Department)	•	245	1975	Phillips Coal, Inc.* Lambert Coal Company*
192	1971	Ace Drilling Company, Inc.*		240	1975	Winner Bros. Coal Company, Inc.
193	1972	Wilhelm Coal, Inc.*		248	1975	Buffalo Coal Company, Inc.*
194 195	1972	M.F. Fetterolf Coal Company, Inc.***		249	1975	Cobra Fuels*
195	1972	Buffalo Coal Company, Inc.*	1	250	1975	Laoc Coal Company*
197	1972 1972	Besemer Iron & Coal Company*	:	251	1975	Tower Resources, Inc.*
198	1972	Grafton Coal Company*		252	1975	Phillips Coal, Inc.*
199	1972	Jet Fuel Coal Company*		253	1975	Pine Mt. Coal Company*
200	1972	Bessemer Iron & Coal Company*		254	1975	T.G.&C. Coal Company*
201	1972	Chief Coal Company*		255	1975	Allegheny Mining Company*
202	1972	Brashear Coal Company*		256	1975	Bridgeview Coal Company*
203	1972	Winner Bros. Coal Company, Inc.* Mary Ruth Corporation*	1	257	1975	A&R Coal Company*
204	1972	Grafton Coal Company*	•	258	1975	Clinton Coal Company**
205	1972	Chief Coal Company*	1			
206	1972	Upperman Coal Company*	1			
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Permit	Year Issued	Do thick to a		Permit No.	Year <u>Issued</u>	Permittee
	Issued	Permittee		310	1977	Oakland Coal Company*
259	1975	Tower Resources, Inc.*		311	1977	Primrose Coal Company*
260	1975	Yough Tree Farm*	ė	312	1977	R.A.K. Coal Company, Inc.**
261	1975	Russel Shafer***		313	1977	G&S Coal Company*
262	1975	Northwest Coal Company**	,	314	1977	Wilhelm Coal, Inc.**
263	1975	Allegheny Mining Corporation*	•	315	1977	Clise Coal Company
264	1975	Brashear Coal Company	F	316	1977	Brawal Mining, Inc.
265	1975	Bittinger Coal Company*	1	317	1977	John R. Livingston**
266	1975	Delta Mining, Inc.*		318	1977	Winner Bros. Coal Company, Inc.
267	1975	Bittinger Coal Company*		319	1977	John Duckworth Coal Company*
268	1975	Clyde Marsh Coal Company*		320	1977	Kelley Enterprises*
269	1 9 75	Hungry Hollow Coal Company*	ļ	321	1978	Delta Mining, Inc.*
270	1975	Clise Coal Company*	,	322	1978	Bridgeview Coal Company*
271	1975	A&R Coal Company*		323	1978	Ayers Coal Company*
272	1975	Action Mining, Inc.*		324	1978	John Duckworth Coal Company*
273	1975	Win-More Mining & Construction	i	325	1978	G&S Coal Company, Inc.
274	·1975	Evans Coal Company*	i i	326	1978	Buffalo Coal Company, Inc.
275	1975	Buffalo Coal Company, Inc.*	i	327	1978	Buffalo Coal Company, Inc.*
276	1975	Buffalo Coal Company, Inc.*		328	1978	Buffalo Coal Company, Inc.
277	1975	Allegheny Mining Corporation	4	329	1978	Winner Bros. Coal Company, Inc.
278	1976	Inter-State Lumber Company*		330 331	1978	Inter-State Lumber Company* R.A.K. Coal Company***
279	1976	Buffalo Coal Company, Inc.*		332	1978 1978	Seneca Mining Company*
280	197 6	Delta Mining, Inc.*	i	333	1978	Westvaco Corporation
281	197 6	Rondell Company*	I I	334	1978	Buffalo Coal Company, Inc.*
282	1976	Phillips Coal, Inc.*		335	1978	Inter-State Lumber Company**
283	197 6	G&H Coal Company, Inc.*		335	1978	Inter-State Lumber Company*
284	1976	Tower Resources, Inc.		337	1978	Kirby Energy, Inc.*
285	1976	Clinton Coal Company**		338	1978	Barton Mining Company, Inc.
286	1976	Winner Bros. Coal Company, Inc.		339	1978	Wilhelm Coal, Inc.*
287	1976	T.L. Moran, Inc.*		340	1978	Fetterolf Mining, Inc.*
288	1976	Delta Mining, Inc.*		341	1979	Eastern Mining Systems, Inc.**
289	1976	Pine Mt. Coal Company*		342	1979	Primrose Coal Company*
290	1976	Delta Mining, Inc.*		343	1979	L.C. Coal Company*
291	1976	George Nolan**		344	1979	Bridgeview Coal Company*
292	1976	Alexander Coal Co.*	1	345	1979	Delta Mining, Inc.**
293	1976	Pine Mt. Coal Company*		346	1979	Inter-State Lumber Company*
294 295	1976	Arlen Miller***		347	1979	Kelley Enterprises*
295	1976 1976	Action Mining, Inc.*		348	1979	Schwinabart & Green, Joint Venture*
297	1976	Bessemer Iron & Coal Company**		349	1979	Wilhelm Coal, Inc.**
298	1977	Oakland Coal Company	4	350	1980	Bridgeview Coal Company*
299	1977	Bittinger Coal Company* Inter-State Lumber, Inc.*		351	1980	Winner Bros. Coal Company, Inc.*
300	1977	Garbart Coal Company*		352	1980	John Duckworth Coal Company*
301	1977	Pine Mt. Coal Company*		353	1980	Winner Bros. Coal Company, Inc.
302	1977	L.C. Coal Company, Inc.*	l.	354	1980	Brawal Mining, Inc.*
303	1977	Ginniman Brothers Coal Company**	4	355	1980	Hi-Note, Inc.*
304	1977	Buffalo Coal Company, Inc.*		356	1980	G&S Coal Company, Inc.***
305	1977	Wood Products, Inc.*		357	1980	Richard Duckworth Coal Company*
306	1977	Bridgeview Coal Company*		358	1980	Bridgeview Coal Company*
307	1977	T.L. Moran, Inc.*		359	1980	Buffalo Coal Company, Inc.
308	1977	Best Coal Stripping, Inc.**	l l	360	1980	Buffalo Coal Company, Inc.*
309	1977	Delta Mining, Inc.*	1	361	1980	Famela Mines. Inc.**
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Permit No.	Year <u>Issued</u>	Permittee
362	1980	Alpha Mining, Inc.*
363	1980	Pamela Mines, Inc.**
164	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	Kirby Energy, Inc.
374	1982	Winner Bros. Coal Company, Inc.
375	1982	Win-More Mining & Construction Company
376	1982	Jones Coal, Inc.**
377	1962	Allegheny Mining Corporation*
378	1982	Delta Mining, Inc.**
179	1982	Masteller Coal Company*
\$80	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	Winner Bros. Coal Company, Inc.
386	1983	Jones Mining, Inc. **
387	1983	Hilltop Construction Company**
388	1983	Fetterolf Mining, Inc.*
389	1983	Winner Bros. Coal Company, 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	1 98 6	Clise Coal Company
405	1 98 6	Jones Coal, Inc.**
406	1986	Patriot Mining Company, Inc.*
407	1986	Winner Bros. Coal Company, 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***

Permit	Year <u>Issued</u>	Permittee
413	1988	Buffalo Coal Company, Inc.
414	1989	Winner Bros. Coal Company, 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 G&S Coal Company, Inc.
421	1992	G&S Coal Company, Inc.
422	1992	Buffalo Coal Company, Inc.
423	1992	Patriot Mining Company, Inc.
424	1995	Pine Mt. Coal Company
425	1995	Tri Star Mining, Inc.
426	1996	Tri Star Mining, Inc.
427	1996	Barton Mining Company, Inc.
428	1997	Patriot Mining Company Inc.
429	1997	Tri Star Mining, Inc.
DEEP MINE	s	
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 A		
SC-83-101		Buffalo Coal Company
SC-83-102		Buffalo Coal Company*
SC-83-103		Buffalo Coal Company
SC-83-104		Buffalo Coal Company Buffalo Coal Company***
SC-83-105		Buffalo Coal Company***
SC-83-106		Permit Not Issued
SC-83-107		Delta Coal Sales, Inc.**
SC-83-108		Delta Coal Sales, Inc.*
SC-83-109		Permit Not Issued
SC-83-110		Winner Bros. Coal Company, Inc.
SC-83-111		Westvaco Corporation*
SC-83-112		Winner Bros. Coal Company
SC-83-113		Permit Not Issued
SC-83-114		Ever, Inc.*
SC-83-115		Permit Not Issued
SC-87-116		John Duckworth Coal Company
SC-87-117	+ ·	Tri Star Mining, Inc.
SC-87-118	1987	Patriot Mining Company, Inc.

Operation Completed and Bond Released
 Forfeiture of Bond
 Not Activated

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