

CALENDAR YEAR 1981
FIFTY-NINTH ANNUAL REPORT
of the
MARYLAND BUREAU OF MINES



TO
HON. HARRY HUGHES
Governor of Maryland
DEPARTMENT OF NATURAL RESOURCES
JAMES B. COULTER, The Secretary

ENERGY ADMINISTRATION
PAUL MASSICOT, Administrator

From
MARYLAND BUREAU OF MINES
ANTHONY F. ABAR, Director

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FOR THE CALENDAR YEAR 1981

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 Fifty-Ninth Annual Report of the Maryland Bureau of Mines for the period January 1, 1981 through December 31, 1981, in compliance with the Maryland Mining Law. This Report is the One Hundred Fifth Annual Report upon conditions of the coal mines within the State.

Very respectfully,

Anthony F. Abar, Director

OR THE CALENDAR YEAR 1981

MARYLAND BUREAU OF MINES PERSONNEL

Anthony F. Abar Director
Stephen M. Layton Energy Resources Officer III
Fred L. Bagley Energy Resources Officer III
John E. Carey Energy Resources Officer II (1/81-2/81)
Patrick E. Gallagher Energy Resources Officer II (1/81-10/81)
Alan V. Hooker Energy Resources Officer I
Jeffrey McCombs Energy Resources Officer I (4/81-12/81)
Richard A. Gardner Energy Resources Specialist II (5/81-12/81)
P. Douglas Curtis District Mine Inspector
James E. Droppleman District Mine Inspector
John C. Eilers District Mine Inspector
Chester L. Evans District Mine Inspector
Joseph Mills District Mine Inspector (5/81-12/81)
Raymond Karlstrand District Mine Inspector (8/81-12/81)
Ruth D. Booth Office Supervisor
Mary E. Cameron Office Secretary II
Dorothy E. Roberson Stenographer Clerk III

FOR CALENDAR YEAR 1981

REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 1981 totaled 4,451,559.31 tons. Production for 1981 represents an increase of 691,467.06 tons from the 1980 production of 3,760,092.25 tons.

SUMMARY OF 1981 STATISTICS¹

COAL PRODUCTION

Mining Method	Allegany County	Garrett County	Total	%
Strip	1,274,649.42	1,260,206.65	2,534,856.07	57%
Deep	0	1,903,071.24	1,903,071.24	42%
Auger	927.00	12,705.00	13,632.00	1%
TOTALS . .	1,275,576.42	3,175,982.89	4,451,559.31	100%

EMPLOYEES¹

Type of Mine	Allegany County	Garrett County	Total	Fatalities
Deep	0	611	611	0
Strip	357	351	708	0
TOTALS ² . .	357	962	1,319	0

¹Reports submitted by Maryland mining operators.

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

Allegany County shows a production of 3,573.04 net tons per man employed during 1981.

Garrett County shows a production of 3,301.43 net tons per man employed during 1981.

FOR CALENDAR YEAR 1981

TONNAGE BY COAL SEAMS

Allegany County

Waynesburg	324,086.18
Sewickley (Tyson)	149,339.07
Redstone	66,733.97
Pittsburgh	405,326.49
Morantown	42,408.02
Little Pittsburgh	25,199.94
Franklin	49,573.10
Barton	1,893.73
Bakerstown	105,378.61
Freeport	66,276.36
Kittanning	39,360.95
TOTAL	1,275,576.42

Garrett County

Waynesburg	6,386.00
Sewickley	5,649.00
Pittsburgh	167,492.29
Little Pittsburgh	38,393.00
Franklin	79,794.00
Barton	69,756.00
Harlem	58,981.50
Bakerstown	332,047.92
Brush Creek	43,866.02
Freeport	2,043,014.40
Clarion	22,192.81
Kittanning	308,409.95
TOTAL	3,175,982.89

TONNAGE BY BASIN

Lower Youghiogheny	215,131.32
Upper Youghiogheny	44,385.67
Casselman	179,151.35
Casselman (Cherry Creek)	73,096.20
Potomac	2,303,106.25
George's Creek	1,636,688.52
TOTAL	4,451,559.31

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TORNAGE			ACRES			
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved
Alpha Mining	362	Pittsburgh	2	260	1,158.5		6,904.56		1	0	0	0
		Morantown					1,874.62					
		Redstone					1,137.62					
Ayers Coal Company	323	Franklin	2	186	1,461.0		4,625.00		1	0	0	0
Bessemer Iron & Coal	296	Bakerstown	6	179	4,087.0		1,870.04		19	27.5	33.5	0
Brashear Coal Company	264	L. Pittsburgh	8	251	13,349.0		23,184.73		5	5.7	5.7	17.5
		Franklin					10,852.15					
		Pittsburgh					3,313.10					
Buffalo Coal Company		Morantown					1,025.40					
	189	Pittsburgh	--	--	--		COMPLETED		--	--	--	60
	241	Pittsburgh	--	--	--		COMPLETED		0	7	7	0
	276	Pittsburgh	0	0	0		N.P.		0	0	0	0
	279	Pittsburgh	12	221	20,094.0		28,683.00		2	0	0	0
	326	Pittsburgh	10	243	18,152.0		27,643.00		13	0	0	0
	327	Pittsburgh	0	0	0		N.P.		1	33	33	0
	328	Waynesburg	8	240	14,960.0		9,772.00		9	0	0	0
		Tyson					9,585.00					
	334	Franklin	4	88	2,368.0		1,703.00		4	0	0	0

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TOINAGE				ACRES		
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved
Buffalo Coal (cont.)	359	Pittsburgh	2	40	640.0		187.00		5	0	0	0
Clise Coal Company	234	Tyson	1	56.5	780.0		948.69		4	7	0	0
	315	Waynesburg	1	173	2,648.0		6,442.05		1	2	13	13
Commonwealth Coals	337	Morantown	11	251	21,604.0		23,984.52		20	0	0	11
		Pittsburgh					15,360.63					
		Redstone					14,305.09					
Delta Mining, Inc.	213	Waynesburg	21	255	37,152.5		152,876.29		24	8.7	8.7	63.9
		Pittsburgh					6,906.00					
	270	Waynesburg	2	129	2,964.0		8,054.70		9	0	0	0
John Duckworth	324	Pittsburgh	2	254	4,064.0		10,843.53		6	0	0	9
	352	Pittsburgh	4	254	8,480.0		45,958.86		2	4	0	0
Richard Duckworth	357	Bakersrown	5	254	9,112.0		24,904.37		21	14	10	0
Emmett Duppsstadt	178	Pittsburgh	0	0	0		COMPLETED		0	5	5	0
Eastern Mining Systems	341	Barton	1	66	1,340.0		1,893.73		2	0	0	0
Eckhart Coal Company	184A	Franklin	2	226	3,556.0			927.00	0	0	0	0
Evans Coal Company	274	Pittsburgh	3	240	5,760.0		10,487.77		2	3	3	0
Fetterolf Mining	340	Wellersburg	3	12	348.0		COMPLETED		0	40.3	60.3	0

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981

FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TORMAGE			ACRES		
						Deep	Strip	Auger	Stripped	Backfilled	Planted
G & H Coal Co., Inc.	230	Harlem	--	--	--		COMPLETED		--	--	27
	283	Barton	--	--	--		COMPLETED		--	--	23
Hi-Note, Inc.	231	Pittsburgh	7	287	15,270.0		60,749.35		24	3.9	9
	268	Pittsburgh	10	308	21,286.0		23,249.26		5	30.2	7
Clyde Marsh Coal Co.		Morantown					14,583.25				
		Tyson					4,495.30				
Phillips Coal Company	187	L. Pittsburgh	3	13	350.0		2,015.21		0	10	0
	245	Bakerstown	--	--	--		COMPLETED		--	--	17
T. G. & C. Coal Co.	282	Sewickley	--	--	--		COMPLETED		--	--	36
	286	Sewickley	9	270	24,838.0		25,113.20		0	0	0
Tower Resources, Inc.	318	Waynesburg	13	270	23,049.5		6,397.63		5	12.7	5
	251	Waynesburg	16	264	35,956.5		26,603.71		37	22	16
	259	Franklin	0	0	0		111,853.51		0	13	0
	284	Bakerstown	19	273	42,501.5		78,604.20		88	18	0
		Freeport					66,276.36				
		Kittanning					39,360.95				

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981

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
J. R. Thrasher	120	Pittsburgh	--	--	--		COMPLETED		0	12	12	9
	233	Franklin	11	180	14,570.0		31,465.95		1	5	5	1.9
Union Coal Company		Redstone					1,341.07					
	338	Pittsburgh	11	180	14,570.0		17,880.67		4	3	0	15
Upper Potomac River Commission (UPRC)	153	Pittsburgh	--	--	--		COMPLETED		0	8	8	8
	273	Redstone	5	241	8,184.0		14,409.80		2	0	0	0
Win-More Mining & Const.		Pittsburgh					11,815.46					
		Tyson					3,571.17					
Wimmer Bros. Coal Co.		Morantown					940.23					
	40	Redstone	5	238	11,583.0		21,288.00		21	0	0	0
	182	Pittsburgh	0	0	0		N.P.		0	0	0	0
	202	Tyson	6	198	10,399.0		10,324.00		11	0	0	15
	207	Pittsburgh	10	260	27,121.0		105,013.00		1	0	0	0
		Tyson					68,698.00					
	227	Waynesburg	--	--	--		COMPLETED		0	23	75	45
	247	Pittsburgh	10	260	20,714.0		27,609.00		0	0	0	0
	329	Redstone	8	242	9,713.0		14,253.00		13	0	0	0
	351	Waynesburg	6	132	5,147.0		16,904.00		9	0	0	0

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981
FOR ALLEGANY COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TORNAGE			ACRES				
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved	
Winner Bros. (cont.)	353	Waynesburg	4	260	12,668.0		11,786.00		12	0	0	0	0
	368	Pittsburgh	4	66	2,345.0		2,723.00		7	0	0	0	0
TOTALS ALLEGANY COUNTY						0	1,274,649.42	927.00	391.0	318.0	357.1	424.3	

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981
FOR GARRETT COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TORNAGE				ACRES			
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved	
A & J Coal Corporation	M106	--	--	--	--	FORFEITED							
A & R Coal Company	257	Freeport	1	20	160.0		1,656.75		0	4.3	7.1	5.2	
Allegheny Mining Corp.	263	Freeport	5	139	4,952.0		184.00		0	0	0	0	
	277	Freeport	15	248	27,824.0		61,670.00		5.5	15	16	6	
Beemer Coal Company	143	Pittsburgh	13	306	32,160.0		157,186.00		21	22	18	4.3	
Bittinger Coal Company	265	Freeport	1	76	608.0		1,026.86		0	0	0	0	
	267	Bakerstown	--	--	--		COMPLETED		--	--	--	11	
	369	Bakerstown	5	171	5,719.0		9,536.99		15	0	0	0	
Blue Chip Mining Co.	308	Freeport	18	65	9,360.0		12,757.05		5	9.1	9.1	0	
		Brush Creek					2,763.30						
Brawal Mining Co.	316	Kittanning	8	264	16,896.0		24,512.09		0	21.5	21.5	0	
	354	Kittanning	0	0	0		N.P.		0	7.3	7.3	0	
Bridgeview Coal Co.	344	Freeport	--	--	--		COMPLETED		--	--	--	33	
	350	Brush Creek	9	98	7,056.0		18,633.40		14	54	54	0	
	358	Brush Creek	9	144	8,014.0		21,959.22		23	23	23	0	
Buffalo Coal Company	190	Kittanning	--	--	--		COMPLETED		--	--	--	--	
	195	Bakerstown	--	--	--		COMPLETED		--	--	--	77	
	215	Bakerstown	12	244	2,112.0		39,986.00		3	6	5	0	

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981
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
Buffalo Coal Co. (cont.)	240	Freeport	18	244	34,856.0		82,910.00		49	30	30	0
	248	Freeport	--	--	--	COMPLETED			--	--	--	--
	304	Mahoning	0	0	0	COMPLETED			0	22	22	0
	360	Freeport	10	222	17,840.0		47,108.00		16	0	0	0
	366	Barton	13	181	18,344.0		57,331.00		30	0	0	0
	181	Kittanning	--	--	--	COMPLETED			--	--	--	40
Delta Mining, Inc.	224	Harlem	0	0	0	COMPLETED			0	41	0	41
	266	Brush Creek	--	--	--	COMPLETED			--	--	--	17
	280	Brush Creek	1	120	1,167.0		N.P.		0	0	0	15
	288	Harlem	0	0	0	COMPLETED			0	24	0	72
	290	Brush Creek	--	--	--	COMPLETED			--	--	--	15
	309	Bakerstown	2	205	3,090.5		N.P.		0	44	49	10
G & S Coal Co., Inc.	345	Freeport	12	244	23,656.0		82,496.51		54	29	29	0
	137	Kittanning	16	160	19,184.0		11,539.00		0	0	0	10
	137A	Kittanning						7,005.00				
	219	Barton	--	--	--	COMPLETED			--	--	--	28.5
	325	Barton	2	111	1,776.0		12,425.00		0	3	3	0

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981
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	
G & S Coal Co. (cont.)	365	Freeport	16	41	5,248.0		20,883.00		30	0	0	0	0
	365A	Freeport						5,700.00					
Ginniman Bros. Coal	303	Bakerstown	--	--	--		FORFEITED		--	--	--	--	--
Highland Mining Co.	239	Freeport	3	63	1,512.0		678.35		0	3.7	4	0	0
Hopwood Construction	242	Freeport	--	--	--		FORFEITED		--	--	--	--	--
Interstate Lumber Company	299	Bakerstown	0	0	0		COMPLETED		0	0	0	0	25
	330	Bakerstown	15	79	6,980.0		10,359.53		10	21	25	24	24
	335	Bakerstown	30	306	53,334.5		161,502.22		26	15	15	0	0
	336	Bakerstown	0	0	0		COMPLETED		0	5.5	5.5	0	0
	346	Bakerstown	0	0	0		COMPLETED		0	0	0	0	0
Kelley Enterprises	320	Harlem	0	0	0		COMPLETED		0	0	0	15	15
L. C. Coal Company	302	Bakerstown	0	0	0		COMPLETED		0	0	0	0	15
	343	Clarion	14	285	22,578.0		22,192.84		14	5.25	0	0	0
		Kittanning					22,192.83						
Masteller Coal Co.	DM102	Kittanning	30	275	77,567.0		243,161.00		--	--	--	--	--
Mettiki Coal Corp.	DM101	Freeport	266	241	531,068.25		601,171.62		--	--	--	--	--
	DM104	Freeport	155	241	300,175.0		420,555.93		--	--	--	--	--
	DM105	Freeport	160	241	327,611.0		638,182.69		--	--	--	--	--

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981
FOR GARRETT COUNTY

Name of Operator	Permit Number	Coal Seam Worked	Employees	Days Worked	Man-Hour Exposure	TORNAGE				ACRES		
						Deep	Strip	Auger	Stripped	Backfilled	Planted	Approved
Moran Coal Company	364	Bakerstown	3	61	1,464.0		3,946.01		7	0	0	0
New Mineral Coal Co.	64	Kittanning	0	0	0	COMPLETED			0	0	0	10
Oakland Coal Company	173	Harlem	10	229	16,974.0		29,725.00		8	16.3	18.6	27
	211	Bakerstown	0	0	0		N.P.		0	0	0	54
	297	Freepport	2	229	3,580.5		27,060.00		19	0	0	4.5
	310	Harlem	10	229	16,404.5		29,256.50		28	22.7	13.9	0
		Bakerstown					29,256.50					
Pamela Mines, Inc.	363	Pittsburgh	4	20	672.0		4,379.29		4	0	0	0
Pine Mt. Coal Co.	289	Freepport	2	143	2,288.0		12,041.79		9	14	14	0
	293	Bakerstown	0	0	0		COMPLETED		0	0	0	0
River Hill Coal Co.	272	Freepport	3	243	6,239.0		26,421.75		16	0	0	0
	295	Kittanning	1	20	173.0		N.P.		0	0	0	0
Schinabart & Green	348	Bakerstown	5	201	8,040.0		18,661.00		7	0	0	0
T. L. Moran, Inc.	287	Harlem	0	0	0		COMPLETED		0	28	28	11
	307	Freepport	0	0	0		COMPLETED		0	22	16	0
Tower Resources, Inc.	361	Waynesburg	2	116	3,044.0		6,386.00		0	0	0	0
Upperman Coal Co.	206	Bakerstown	8	156	10,392.0		22,964.00		3	0	0	9

STATISTICS OF COAL PRODUCTION, CALENDAR YEAR 1981
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
Union Coal Company	164	BakersTown	0	0	0	COMPLETED			0	0	0	16.6
Westvaco Resources	333	Franklin	37	256	83,255.0	79,794.00			33	71.4	25.3	47
		L. Pittsburgh				38,393.00						
		Pittsburgh				5,927.00						
		Sewickley				5,649.00						
Wilhelm Coal, Inc.	193	Barton	0	0	0	N.P.			0	0	0	11
	314	Freeport	3	67	2,058.0	510.10			.5	0	0	5.5
		Brush Creek				510.10						
	349	BakersTown	13	307	27,549.94	35,835.67			29	17	47	0
Wood Products	305	BakersTown	0	0	0	COMPLETED			0	0	0	55
Yough Tree Farm	260	Clarion	0	0	0	COMPLETED			0	0	0	16.8
TOTAL GARRETT COUNTY			962	7,311.0	1,743,982.19	1,903,071.24	1,260,206.65	12,705.00	479	597.05	506.3	731.4
TOTAL ALLEGANY COUNTY			357	7,820.5	474,343.50	0	1,274,649.42	927.00	391	318.00	357.1	424.3
TOTAL BOTH COUNTIES			1,319	15,131.5	2,218,325.69	1,903,071.24	2,534,856.07	13,632.00	870	915.05	863.4	1,155.7

FOR CALENDAR YEAR 1981

MINE FOREMAN AND FIRE BOSS
EXAMINATIONS AND CERTIFICATIONS

The number of Mine Foremen and Fire Boss examinations conducted from 1973 through 1981 are identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foremen	Fire Boss	Mine Foremen	Fire Boss
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
1973	0	0	0	0

FOR THE CALENDAR YEAR 1981

ACCIDENT REPORT

COMPANY	PERMIT NUMBER	NUMBER OF NON-FATAL ACCIDENTS	WORKING DAYS LOST	FATAL ACCIDENTS	ACCIDENT RATE
Allegheny Mining	277	1	9	0	35.94
	Tipple	12	22	0	--
Tower Resources, Inc.	251	7	51	0	194.67
	284	6	7	0	141.17
Mettiki Coal Co.	DMI01	19	521	0	35.78
	DMI04	28	899	0	93.28
	DMI05	26	308	0	79.36

FOR CALENDAR YEAR 1981

COMPARATIVE ACCIDENT REPORT

Year	Man-Hours Exposure	Tons Produced	Fatals	Last Time Accidents	Frequency	Fatalties Per Million Man-Hours	Fatalties Short Tons	Non-Fatal Per Million Man-Hours	Non-Fatal Short Tons	Tons Per Fatality	Tons Per Non-Fatal Injures
1981	2,218,325.69	4,451,559.31	0	82	45.07	0	0	45.07	22.46	0	44,515.59
1980	2,089,982.5	3,760,092.25	0	61	35.4	0	0	35.4	19.68	—	50,812.05
1979	1,855,326.73	2,716,617.07	3	29	31.8	1.61	1.1	31.8	21.71	905,539.02	46,044.35
1978	1,429,612	2,851,321.89	1	24	16.78	.69	.35	16.78	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	10.9	4.95	—	201,908.64
1976	1,287,997.5	2,695,178.96	0	4	3.1	N.A.	0	3.1	1.48	—	673,794.74
1975	981,372	2,520,765.27	1	5	5.09	1.01	.39	5.09	1.98	2,520,765.27	504,153.05
1974	697,707.5	2,221,412.94	1	0	N.A.	1.4	.43	0	0	2,221,412.94	N.A.
1973	541,210	1,754,130.93	0	3	5.7	0	0	5.7	1.14	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
1970	445,991	1,467,002.77	1	4	11.21	2.24	.67	8.97	2.72	1,467,002.77	366,750.69

FOR THE CALENDAR YEAR 1981

LAND RECLAMATION COMMITTEE

ANNUAL REPORT

Members:

The following members served on the Land Reclamation Committee during 1981:

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

Kenneth N. Weaver (Chairman), Maryland Geological Survey
Stephen M. Layton, Maryland Bureau of Mines
Paul Mateer, Maryland Forest Service
Ed 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 REPRESENTATIVES:

Lois Crossland, Allegany County
Vacant, Garrett County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Craig Hartsock, Allegany
Shaun Sanders, Garrett

COAL INDUSTRY REPRESENTATIVES:

John E. Carey
James M. Coffroth

Meetings and Time:

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 1981

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, Section 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"

Specific duties addressed by the Committee during its monthly meetings include:

1. Review and approval of reclamation plans;
2. Review and approval of Annual Mining and Reclamation Progress Reports, Final Reports, and revegetation bond releases;
3. Establish amounts of revegetation bond for each operation.

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.

FOR THE CALENDAR YEAR 1981

REVEGETATION OF STRIP MINED LANDS

The State Land Reclamation Committee voted to release 1,155.7 acres of reclaimed surface coal mined land from a total of 1,471 acres eligible for revegetation bond release during 1981. This action was taken after consideration of 99 planting reports filed by 41 different coal companies.

Prior to release of bonds, the State's surface mining regulations require a minimum of two growing seasons after planting for evaluation to determine if:

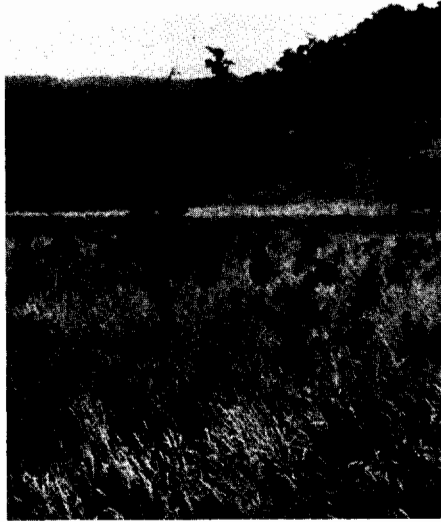
1. The herbaceous coverage is at least 80 percent and no active erosion is taking place on the site;
2. Bare areas do not exceed 2,500 square feet;
3. Permanent legumes, well distributed, comprise at least 10 percent of the coverage;
4. Erosion rills and gullies do not exceed 9 inches in depth;
5. There are no depressions and seeps in the area; and
6. If trees and shrubs are planted, at least 600 well distributed and living stems must exist per acre, including volunteers.

Longer evaluation time may be required, even if an area meets these criteria at the end of two growing seasons, if the health conditions of the vegetation are questionable. All reclaimed acres were planted with a mixture of permanent and temporary grasses and legumes to insure adequate erosion control protection. In addition to herbaceous cover, trees for forestry purposes and trees and shrubs for wildlife benefit were planted on 52 acres.

The principal reason for disapproval of 315.3 acres was failure to meet the permanent legume requirements. The permanent legume is very

FOR THE CALENDAR YEAR 1981

important in sustaining the vegetative cover of the site.



A reclaimed mining site showing grasses and legumes for stabilization and trees planted for longer term purposes.

During the first month of each year, a listing of acres eligible for revegetation bond release is compiled. This list is published in local newspapers in Allegany and Garrett Counties several times before the public hearing for revegetation bond releases. Copies of this list are available at the Bureau of Mines office after January.

During 1981, many soil samples were taken on revegetated strip mine lands. The soil samples were analyzed for pH, Nitrogen, Potash (P_2O_5) and Potassium (K_2O). The average pH was 5.2, and P_2O_5 was very low in over 85% of the samples taken. Analyses of original soils of the areas strip mined were very similar.

FOR THE CALENDAR YEAR 1981

ABANDONED MINE LAND RECLAMATION

A total of 24.5 acres of abandoned mine lands were reclaimed under six different contracts covering backfilling and revegetation. The total cost of the six contracts was \$52,050. The fund source for these contracts is the Bituminous Coal Open-Pit Mining Reclamation Fund. The Bituminous Coal Open-Pit Mining Reclamation Fund is derived from a 15¢ per ton of coal mined reclamation surcharge and a \$40 per acre of land mined reclamation fee paid by the coal operators.

In addition to the six projects mentioned above, the Appalachian Regional Commission (ARC) is funding a daylighting project in the Cherry Creek Basin, Garrett County. Daylighting is a technique used to remove abandoned underground mine workings by surface mining methods to eliminate ground water from becoming contaminated by the mine workings. This project will abate the last known abandoned underground mine drainage source in the Cherry Creek watershed. The project is approximately 90% complete and is expected to be topsoiled and revegetated in the spring of 1982.

The ARC has also approved funds (\$1,910,625) for the Upper George's Creek Pollution Abatement Project, Allegany County. The Pollution Abatement Project will consist of sealing the beds of portions of five stream sections in the northern portion of the George's Creek watershed with an impervious clay lining and protecting the stream banks and clay lining with rock riprap. The purpose of this project is to reduce surface water that is entering abandoned underground mine workings and creating abandoned mine drainage pollution. Engineering designs and construction specifications on one of the five stream sections, Vale Run, is 90% complete, and project construction is expected to begin in the Spring of 1983.

FOR THE CALENDAR YEAR 1981

An application for Federal funds, to finance a project that will stabilize an active landslide area exacerbated by an abandoned mine discharge, was submitted to the Federal Office of Surface Mining. The proposed project will consist of the installation of surface and sub-surface drainage diversions, site regrading, and revegetation. Anticipated project engineering and construction costs are \$300,000.

The Bureau is finalizing the State Abandoned Mine Lands Reclamation Plan, for submission to the Federal Office of Surface Mining. The Reclamation Plan will identify the procedures to rank and select abandoned mine projects, provide public participation, and coordinate reclamation efforts with local, State, and Federal agencies. The Plan is to be completed in the Spring of 1982, and will be submitted to the Office of Surface Mining for approval at that time.

FOR CALENDAR YEAR 1981
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 1981
(By Basin)

Table No. 1

	ACRES THIS YEAR*							Final Reports
	Acres Approved By L.R.C.	Permitted	Stripped	Backfilled	Planted	Revegetation Bond Released		
Allegany County:								
George's Creek Basin (geological)	412.8	110.8	391	320	359.1	424.3	4	
Garrett County:								
George's Creek Basin (geological)	5	5	101	133.5	113.4	62.3	0	
Potomac Basin (geological)	514	0	174	100.0	92.5	260.5	1	
Casselman Basin**	0	0	96	216.8	150.8	196.1	4	
Cherry Creek Water Basin*	0	0	20.5	18.7	20.0	78.0	2	
Upper Yough Basin (geological)	0	0	14	5.25	0	59.8	0	
Lower Yough Basin (geological)	9	9	73.5	122.8	129.6	74.7	5	
Garrett County Totals	528	14	479.0	597.05	506.3	731.4	12	
TOTAL BOTH COUNTIES (All Basins)	940.8	124.8	870.0	917.05	865.4	1,155.7	16	

Table No. 2

	ACRES CUMULATIVE FROM JANUARY 1, 1975 — DECEMBER 31, 1981							Final Reports
	Acres Approved By L.R.C.	Permitted	Stripped	Backfilled	Planted	Revegetation Bond Released		
Allegany County:								
George's Creek Basin (geological)	5,102.88	4,307.3	2,845.1	2,045.97	2,028.9	1,674.8	25	
Garrett County:								
George's Creek Basin (geological)	1,248	1,092	994.4	740.8	988.9	893.4	5	
Potomac Basin (geological)	1,994	1,849	1,224.4	1,200.3	1,514.1	1,728.8	15	
Casselman Basin*	1,406.3	1,170	780	783.6	680.4	516	13	
Cherry Creek Water Basin*	532	624	538.9	384	374.4	316.4	8	
Upper Yough Basin (geological)	253	214	138.7	149.35	138.3	155.9	3	
Lower Yough Basin (geological)	958.5	1,143	718	891.76	800.86	513.3	21	
Garrett County Totals	6,391.8	6,092	4,394.4	4,149.81	4,496.96	4,123.8	65	
TOTAL BOTH COUNTIES (All Basins)	11,494.68	10,399.3	7,239.5	6,195.78	6,525.86	5,798.6	90	

* Where difference occurs between Approved and Permitted, either Permit was approved in 1980 and not issued until 1981, or Permit was not issued.

** Both Casselman Geological Basin.

FOR CALENDAR YEAR 1981

FOR CALENDAR YEAR 1981

Table No. 3

SUMMARY OF MINING AND RECLAMATION STATISTICS 1974 — 1981

	1974	1975	1976	1977	1978	1979	1980	1981	Cumulative Total
Surface Mine Licenses Issued (New)	14	20	12	13	9	8	6	10	92
New Surface Mine Permits Issued	35	37	19	25	20	7	19	0	162
New Deep Mine Permits Issued	0	0	0	1	5	0	0	0	6
Auger Only Permits Issued	0	1	0	0	0	0	0	0	1
A.M. & R.P.R.'s Processed	49	92	111	135	156	139	111	100	893
Amended Permits Processed	41	62	38	36	24	8	19	11	239
Forfeitures	0	0	0	0	1	4	5	1	11
Permits Completed and Planted	5	16	3	19	17	19	15	16	110
Site Evaluation Committee Days	23	23	28	32	23	22	25	22	198
Land Reclamation Committee Days	13	14	12	11	13	9	11	9	92

FOR CALENDAR YEAR 1981

Permit No.	1	The George's Creek Lumber Company*
Permit No.	2	Allegheny 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	Allegheny 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	Allegheny 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 Co.**
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**

FOR CALENDAR YEAR 1981

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 Rodamer*
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 Company*
Permit No. 102	C.A. Liller Coal Company*

FOR CALENDAR YEAR 1981

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 and 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 and 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 and Stripping Co.*
Permit No. 139	J.R. Thrasher Contracting and 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**

FOR CALENDAR YEAR 1981

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 Duppstadt
Permit No. 179	Somerset Excavating, Inc.*
Permit No. 180	Ayers Coal Company*
Permit No. 181	Delta Mining, Inc.*
Permit No. 182	Winner Brothers 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	Bessemer 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*

FOR CALENDAR YEAR 1981

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 Interstate 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 Bridgeview Coal Company*
 Permit No. 222 John Duckworth*
 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 Brothers 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 Union Coal Company, Inc.
 Permit No. 234 Clise Coal Company, Inc.
 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 Resorces, Inc.
 Permit No. 252 Phillips Coal, Inc.*

FOR CALENDAR YEAR 1981

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, Inc.*
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, Inc.**
Permit No. 263 Allegheny Mining Corporation*
Permit No. 264 Brashear Coal Company
Permit No. 265 Bittinger Coal Company
Permit No. 266 Delta Mining, Inc.
Permit No. 267 Bittinger Coal Company
Permit No. 268 Clyde J. Marsh
Permit No. 269 Hungry Hollow Coal Company*
Permit No. 270 Delta Mining, Inc.*
Permit No. 271 A. & R. Coal Company*
Permit No. 272 River Hill Coal Company
Permit No. 273 Win-More Mining & Construction Company
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 Interstate Lumber Company*
Permit No. 279 Buffalo Coal Company*
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 Coal Company
Permit No. 288 Delta Mining, Inc.
Permit No. 289 Pine Mt. Coal Company
Permit No. 290 Delta Mining, Inc.*
Permit No. 291 George Nolan**
Permit No. 292 Alexander Coal Company*
Permit No. 293 Pine Mt. Coal Company
Permit No. 294 Arlen Miller***
Permit No. 295 River Hill Coal Company
Permit No. 296 Bessemer Iron & Coal Company
Permit No. 297 Oakland Coal Company
Permit No. 298 Allegheny Mining Corporation
Permit No. 299 Interstate Lumber 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**

FOR CALENDAR YEAR 1981

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 Coal Company
Permit No. 308	Blue Chip Mining Company
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*
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
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 Brothers Coal Company, Inc.
Permit No. 330	Interstate Lumber Company, Inc.
Permit No. 331	R. A. K. Coal Company, Inc.***
Permit No. 332	Seneca Mining Company
Permit No. 333	Westvaco Resources, Inc.
Permit No. 334	Buffalo Coal Company, Inc.
Permit No. 335	Interstate Lumber Company, Inc.
Permit No. 336	Interstate Lumber Company, Inc.
Permit No. 337	T.L. Moran Coal Company, Inc.
Permit No. 338	Union Coal Company, Inc.
Permit No. 339	Wilhelm Coal, Inc.
Permit No. 340	Fetterolf Mining Inc.
Permit No. 341	Eastern Mining Systems
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	Interstate 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, Inc.
Permit No. 351	Winner Brothers Coal Company

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Permit No. 352 John Duckworth Coal Company
Permit No. 353 Winner Brothers Coal Company
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
Permit No. 358 Bridgeview Coal Company, Inc.
Permit No. 359 Buffalo Coal Company, Inc.
Permit No. 360 Buffalo Coal Company, Inc.
Permit No. 361 Tower Resources, Inc.
Permit No. 362 Alpha Mining, Inc.
Permit No. 363 Tower Resources, Inc.
Permit No. 364 Moran 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 Brothers Coal Company
Permit No. 369 Bittinger Coal Company

* *Operation Completed and Bond Released*

** *Forfeiture of Bond*

*** *Not Activated*

**** *Permit Not Issued*