



Maryland
Department of
the Environment

Ninety-Ninth Annual Report of the Maryland Bureau of Mines -2020-

Prepared by:
Land and Materials Administration
Mining Program

Prepared for:

Senate Education, Health, and Environmental Affairs Committee
House Environment and Transportation Matters Committee

Larry Hogan, Governor
State of Maryland

Boyd K. Rutherford, Lt. Governor
State of Maryland

Bill Ferguson, Senate President
Maryland General Assembly

Adrienne A. Jones, House Speaker
Maryland General Assembly

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EXECUTIVE SUMMARY

This report is published by the Maryland Department of Environment (MDE), in accordance with the Environment Article, §15-203(g), Annotated Code of Maryland §15-827, covering coal mine operations.

During CY20, Maryland operators produced 1.39 million tons of coal. Surface coal mining production totaled 0.5 million tons in Allegany County and 0.12 million tons in Garrett County. Deep coal mining production totaled 0.77 million tons, all in Garrett County.

MDE's Bureau of Mines received 45 coal mine permit applications and approved 42 permitting actions, including one original permit. Included in the permitting actions were 20 operator's license renewals. Other permit actions included modifications, transfers, and prospecting permits.

Twenty-eight acres were affected, 154 acres backfilled, and 154 acres planted.

Six hundred forty inspections were conducted on coal mining operations. One Notice of Violation was issued. Eleven citizen complaints were received and investigated and there were no cessation orders issued. There were no permit revocations or bond forfeitures during this calendar year.

The Land Reclamation Committee met one time. The Committee evaluated the revegetation on 268 acres eligible for Phase II bond release and approved 242 acres as meeting the standards for release. There were two reclamation plan changes during the year.

SUMMARY OF STATISTICS FOR THE CALENDAR YEAR 2020 REPORT OF THE MARYLAND BUREAU OF MINES

Coal production in Maryland during 2020 totaled 1,395,364.02 tons. Production in 2020 represents a decrease of 284,779.87 tons from the 2019 production of 1,680,143.89 tons.

SUMMARY OF 2020 STATISTICS¹

COAL PRODUCTION (TONS)

Mining Method	Allegany County	Garrett County	Total
Strip	500,831.89	122,857.76	623,689.65
Deep	0.00	771,674.37	771,674.37
Auger	0.00	0.00	0.00
TOTALS	500,831.89	894,532.13	1,395,364.02

EMPLOYEES²

Type of Mine	Allegany County	Garrett County	Total
Deep	0	80	80
Strip	65	35	100
TOTALS	65	115	180

¹ Obtained from reports submitted by Maryland mining operators.

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

TONNAGE BY COAL SEAMS

ALLEGANY COUNTY

Waynesburg	1,159.11
Sewickley	25,288.89
Redstone	149,400.43
Pittsburgh	188,729.96
Morantown	23,118.26
L. Pittsburgh	53,491.01
Franklin	0.00
Harlem	0.00
Bakerstown	0.00
Freeport	24,368.34
Tyson	35,275.89
Borden	0.00
Barton	0.00

TOTAL 500,831.89

GARRETT COUNTY

Sewickley	17,536.12
Pittsburgh	27,018.31
Morantown	25,357.26
L. Pittsburgh	21,700.84
Franklin	8,843.50
Barton	14,909.41
Harlem	0.00
Bakerstown	2,729.22
Freeport	771,674.37
Upper Kittanning	0.00
Middle Kittanning	0.00
Redstone	4,763.10
Tyson	0.00
Waynesburg	0.00

TOTAL 894,532.13

TONNAGE BY BASIN

Lower Youghiogheny	0.00
Upper Youghiogheny	0.00
Casselman	771,674.37
Casselman-Cherry Creek	0.00
Potomac	1,913.85
George's Creek	621,775.80

TOTAL 1,395,364.02

2020 COAL PRODUCTION, MINING, AND RECLAMATION STATISTICS BY PERMIT FOR ALLEGANY & GARRETT COUNTIES*

*This table includes all permits on which there was production, mining, backfilling, or planting activity. This table does not include permits on which all bonds have been released or forfeited; or permits on which bonds are still held but no production or mining or reclamation activity occurred.

ALLEGANY COUNTY

Operator	Permit Number	Total Tonnage Mined by Permit	PRODUCTION (TONS)			
			Coal Seam	Deep	Strip	Auger
ARJ Construction	464	24,368.34	Freeport		24,368.34	
Beechwood Coal, LLC	359	0.00	Pittsburgh		0.00	
			Morantown		0.00	
			Redstone		0.00	
	393	119,276.04	Pittsburgh		43,285.19	
			Redstone		66,101.20	
			Morantown		9,889.65	
			Tyson		0.00	
	439	210,740.82	Bakerstown		0.00	
			Tyson		35,275.89	
			Sewickley		25,288.89	
			Pittsburgh		90,618.58	
			Waynesburg		0.00	
			Redstone		59,557.46	
			Morantown		0.00	
	442	1,159.11	Waynesburg		1,159.11	
	451	8,535.89	Redstone		8,535.89	
	457	0.00	Pittsburgh		0.00	
			Redstone		0.00	
			Morantown		0.00	
			Tyson		0.00	
	462	0.00	Redstone		0.00	
			Pittsburgh		0.00	
			Tyson		0.00	

C & S Coal	456	0.00	Pittsburgh Redstone	0.00 0.00
Cobra Mining	437	25,804.79	Pittsburgh Morantown Redstone	23,615.01 758.03 1,431.75
G & S Coal	440	0.00	Little Pittsburgh Pittsburgh Morantown Franklin	0.00 0.00 0.00 0.00
Tri-Star Mining	419	32,242.37	Pittsburgh Little Pittsburgh Morantown Redstone Sewickley Waynesburg Franklin	16,442.79 11,842.51 3,957.07 0.00 0.00 0.00 0.00
	436	64,582.96	Little Pittsburgh Pittsburgh Morantown Redstone Sewickley	41,648.50 7,287.01 8,513.51 7,133.94 0.00
Walker Bros. Mining, Inc.	453	14,121.57	Pittsburgh Morantown Redstone Tyson	7,481.38 0.00 6,640.19 0.00
TOTAL ALLEGANY COUNTY		500,831.89		500,831.89

GARRETT COUNTY

				PRODUCTION (TONS)		
Operator	Permit Number	Total Tonnage Mined by Permit	Coal Seam	Deep	Strip	Auger
ARJ Construction	DM111	0.00	Barton	0.00		
		0.00	Lower			
	DM114		Bakerstown	0.00		
		2,729.22	Lower			
	463		Bakerstown		2,729.22	
G & S Coal Company, Inc.	421	1,913.85	Franklin		1,913.85	
	435	0.00	Bakerstown		0.00	
			Barton		0.00	
			Harlem		0.00	
	454	0.00	Barton		0.00	
			Harlem		0.00	
			Bakerstown		0.00	
	455	0.00	Harlem		0.00	
MER, LLC	DM113	771,674.37	Upper Freeport	771,674.37		
Pine Mountain Coal Company	424	1,808.21	Pittsburgh		0.00	
			Morantown		0.00	
			Redstone		0.00	
			Franklin		1,808.21	
Savage Mountain Minerals, Inc.	445	0.00	Little Pittsburgh		0.00	
	446	17,536.12	Sewickley		17,536.12	
			Morantown		0.00	
			Pittsburgh		0.00	
	448	5,121.44	Barton		0.00	
			Pittsburgh		0.00	
			Franklin		5,121.44	
	461	297.33	Barton		297.33	
Tri-Star Mining, Inc.	419	93,451.59	Pittsburgh		27,018.31	
			Little Pittsburgh		21,700.84	
			Redstone		4,763.10	
			Morantown		25,357.26	
			Barton		14,612.08	
			Sewickley		0.00	
TOTAL GARRETT COUNTY		894,532.13		771,674.37	122,857.76	
TOTAL BOTH COUNTIES		1,395,364.02		771,674.37	623,689.65	

2020 SUMMARY OF ACRES PERMITTED, MINED, BACKFILLED, PLANTED, AND RELEASED

Allegany County						
Georges Creek Basin						
Mining Company	Permit	Acres Permitted	Affected Acres	Backfilled Acres	Planted Acres	Released Acres
Ritchie Trucking & Excavating	40	0	0	0	0	0
Beechwood Coal, LLC	359	0	0	6	6	30
Beechwood Coal, LLC	393	0	9	20	20	0
Tri-Star Mining, Inc.	419	0	3	3	3	17
Vindex Energy, LLC	432	0	0	0	0	124
Tri-Star Mining, Inc.	436	0	2	5	5	19
Cobra Mining	437	0	0	0	0	0
Beechwood Coal, LLC	439	0	4	16	16	0
G&S Coal Company, Inc.	440	0	0	40	40	13
Beechwood Coal, LLC	442	0	0	0	0	0
Beechwood Coal, LLC	447	0	0	0	0	39
Beechwood Coal, LLC	451	0	0	15	15	50
Walker Brothers Mining	453	22	3	7	7	0
C & S Coal Company	456	0	0	0	0	0
Beechwood Coal, LLC	457	0	0	22	22	0
Beechwood Coal, LLC	462	0	0	0	0	10
ARJ Construction Company	463	0	0	0	0	0
ARJ Construction Company	464	0	7	0	0	0
Allegany County Georges Creek Basin Total		22	28	134	134	302
Garrett County						

Georges Creek Basin						
Mining Company	Permit	Acres Permitted	Affected Acres	Backfilled Acres	Planted Acres	Released Acres
ARJ Construction Company	DM-111	0	0	0	0	0
Pine Mountain Coal Company	424	0	0	0	0	0
Savage Mountain Minerals	445	0	0	0	0	6
Savage Mountain Minerals	446	0	0	0	0	14
Savage Mountain Minerals	448	0	0	0	0	10
Savage Mountain Minerals	461	0	0	0	0	0
ARJ Construction Company	463	0	0	0	0	0
Georges Creek Basin Garrett County		0	0	0	0	30
Georges Creek Basin Garrett + Allegany County		22	28	134	134	332
Potomac River Basin						
Mining Company	Permit	Acres Permitted	Affected Acres	Backfilled Acres	Planted Acres	Released Acres
Mettiki Coal, LLC	101	0	0	14	14	0
Backbone Mountain, LLC	112	0	0	0	0	0
G&S Coal Company, Inc.	421	0	0	3	3	0
G&S Coal Company, Inc.	435	0	0	3	3	89
G&S Coal Company, Inc.	441	0	0	0	0	17
Vindex Energy, LLC	443	0	0	0	0	0
G&S Coal Company, Inc.	454	0	0	0	0	0
G&S Coal Company, Inc.	455	0	0	0	0	0
Vindex Energy, LLC	459	0	0	0	0	32
Potomac Basin Total		0	0	20	20	138

Casselman Basin						
Mining Company	Permit	Acres Permitted	Affected Acres	Backfilled Acres	Planted Acres	Released Acres
Maryland Energy Resources	DM-113	0	0	0	0	0
Maryland Energy Resources	DM-115	79	0	0	0	0
Casselman Basin Total		79	0	0	0	0
Youghiogheny River Basin						
Mining Company	Permit	Acres Permitted	Affected Acres	Backfilled Acres	Planted Acres	Released Acres
LAOC Corporation	460	0	0	0	0	0
Youghiogheny Basin Total		0	0	0	0	0
All Garrett County Basins Total		79	0	20	20	168
Maryland Totals		101	28	154	154	470

Acres Mined, Backfilled, Planted, and Released By Geological Basin

Acres Reported in 2020 Annual Mining and Progress Reports

Coal Basin	Permitted	Affected	Backfilled	Planted	Released
Georges Creek Allegany County	22	28	134	134	302
Georges Creek Garrett County	0	0	20	20	30
Potomac River	0	0	0	0	138
Casselman River	79	0	0	0	0
Cherry Creek	0	0	0	0	0
Upper Youghiogheny	0	0	0	0	0
Lower Youghiogheny	0	0	0	0	0
Total	101	28	154	154	470

Cumulative Acres from January 1, 1975 – December 31, 2020

Georges Creek Allegany County	9377	8071	6633	6937	7103
Georges Creek Garrett County	3467	3150	2943	3178	3214
Potomac River	6144	5538	4902	5372	5179
Casselman River	1531	1163	1261	1142	1266
Cherry Creek	667	672	579	546	660
Upper Youghiogheny	230	157	215	189	262
Lower Youghiogheny	1335	921	1145	1088	885
Total	22751	19672	17678	18452	18569

2020 PERMITTING ACTIVITY												
Type of Application	Surface Mines			Underground Mines			Other Facilities			Totals		
	App. Rec.	Issued	Acres	App. Rec.	Issued	Acres	App. Rec.	Issued	Acres	App. Rec.	Issued	Acres
Original Permits	1	0	0	0	1	79	0	0	0	0	1	79
Permit Increments	0	0	0	0	0	0	0	0	0	0	0	0
Incidental Boundary Revisions	0	0	0	0	0	0	0	0	0	0	0	0
Significant Amendments	0	0	0	0	0	0	0	0	0	0	0	0
Insignificant Amendments	15	12		6	4		0	0		21	16	
Transfers	0	0		0	0		0	0		0	0	
Renewals	3	4		1	1		0	0		4	5	
Prospecting Permits	0	0		0	0		0	0		0	0	
Prospecting Letter of Intent	0	0		0	0		0	0		0	0	
Operators License Original	0	0		0	0		0	0		0	0	
Operators License Renewals	16	16		4	4		0	0		20	20	
Totals	35	32	0	11	10	79	0	0	0	45	42	79

MINE FOREMAN AND FIRE BOSS EXAMINATIONS AND CERTIFICATIONS

Mine Foreman and Fire Boss applicants examined and certified from 2016 through 2020

YEAR	<u>APPLICANTS EXAMINED</u>		<u>APPLICANTS CERTIFIED</u>	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
2020	0	0	0	0
2019	0	0	0	0
2018	0	0	0	0
2017	19	1	19	1
2016	0	0	0	0

INSPECTION AND ENFORCEMENT ACTIVITIES 2016-2020

TYPE OF ACTION	2016	2017	2018	2019	2020
Inspections	768	770	808	743	640
Notices of Violations	15	7	4	8	1
Cessation Orders	6	0	0	1	0
Citizen Complaints	18	15	11	7	11
Bond Forfeitures	1	0	0	0	0

LAND RECLAMATION COMMITTEE

The following members served on the Land Reclamation Committee during 2020:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES:

Ed Larrimore, Chairman, MDE Land & Materials Administration (1/1/2020 – 6/30/2020)

Mike Garner, Chairman, MDE Land & Materials Administration (7/1/2020 – 12/31/2020)

John E. Carey, MDE Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

George Eberling, Forestry Division

Alan Klotz, Freshwater Fisheries

Rande Brown, Wildlife Division

CITIZEN REPRESENTATIVES:

Michael Beard, Garrett County

Bill Pegg, Allegany County

COUNTY REPRESENTATIVES:

Jeff Barclay, Allegany County

Gary Aronhalt, Garrett County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Adam Heavner, Allegany Soil Conservation District

Roger Kitzmiller, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

Tim Schwinabart

Raymond Tighe

LAND RECLAMATION COMMITTEE FUNCTIONS AND DUTIES

The Land Reclamation Committee is responsible for the approval of all reclamation plans submitted, as part of an application for a coal mining permit. The committee also oversees 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 2020, the Land Reclamation Committee conducted site visits on two days. These visits included field reviews of 19 revegetation sites to evaluate the success of the revegetation.

The Land Reclamation Committee conducts meetings to:

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

During 2020, the Land Reclamation Committee met one time. During the meeting, the Land Reclamation Committee approved two reclamation plan changes. They also evaluated 268 acres of revegetation eligible for Phase II bond release and approved 242 acres as meeting the standards for release.

Reclamation Results of Surface Mined Lands 2020		
Bond Release Phase	Applicable Performance Standard	Acreage Released
Phase I	• Area restored to Approximate Original Contour • Topsoil replaced • Area seeded and mulched • Completion of all reclamation work on the permit or the open acre limit is reduced	301
Phase II	• Revegetation established in accordance with approved reclamation plan and standards for success of revegetation met • The lands are not contributing suspended solids to stream flow or runoff outside the permit area • Temporary drainage control structures are removed or all permanent structures are inspected and approved • Land Reclamation Committee has inspected and approved the revegetation on the area	492
Phase III	• Post-mining land use/productivity restored • Successful permanent vegetation established • Groundwater recharge, quality and quantity restored • Surface water quality and quantity restored Applicable bond liability period has expired	470

2020 RECLAMATION AWARD

Permit SM-01-393 Beechwood Coal, LLC

The Land Reclamation Committee in conjunction with the Maryland Bureau of Mines awarded one reclamation award in 2020. Awards are presented annually to coal mining companies that show excellence in mine reclamation. This year's winner, Beechwood Coal, LLC, used the Forest Reclamation Approach, a relatively new technology that promotes the development of forestry as a post mining land use. This innovative practice was done by reducing the soil compaction of the surface of the backfill, using appropriate soils as a growth medium, planting tree species that are native to the site and planting non-competitive ground cover grasses. This practice has shown to increase tree survival rates and tree growth rates. These benefits lead to a quicker recovery of the mine site to a productive forest.

Beechwood Coal, LLC began mining on this 76-acre permit in 2009. The site is located on Savage Mountain in Garrett County, near the town of Klondike. The site had been previously strip mined and contained unreclaimed highwalls and mining pits. During the mining process Beechwood reclaimed about 20 acres of previously disturbed mining area and several hundred feet of highwall. The site has been reclaimed to lush green grass fields that are home to abundant wildlife.

Past Reclamation Award Winners*

<u>Year</u>	<u>Name of Company</u>	<u>Permit</u>
1993	Buffalo Coal Company	215
1994	G & S Coal Company	365
1995	John Duckworth Coal	372
1996	Buffalo Coal Company	409
1997	Tri Star Mining Inc.	418
1998	G & S Coal Company	325
1999	Buffalo Coal Company	409
2000	Winner Bros. Coal Company	286
2001	Clise Coal Company	315
2002	Win-More Mining	273
2003	Pine Mountain Coal Company	420
2004	G & S Coal Company	365
2005	Mountaineer Mining Corp.	438
2006	Winner Brothers Coal Company	385
2007	Tri Star Mining Inc	429
2008	Cobra Mining, Inc.	184
2009	Vindex Energy Corporation	338
2010	Clise Coal Company Inc.	213
2011	Mettiki Coal, LLC	428
2012	Tri-Star Mining, Inc.	434
2013	Vindex Energy Corporation	431
2014	Tri-Star Mining, Inc.	419
2015	Beechwood Coal, LLC	403
2016	Ritchie Trucking and Excavating, Inc.	040
2017	Vindex Energy, LLC	427
2018	Beechwood Coal, LLC	451
2019	Savage Mountain Minerals	445
2019	LACO Corporation	460

*Each year the Land Reclamation Committee selects a coal mining operation that has achieved outstanding reclamation on a permit site. The award is presented by the Committee.

MINING PERMITS ISSUED BY YEAR AND PERMITTEE

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
1	1955	The George's Creek Lumber Company*
2	1955	Allegany Engineering Company*
3	1955	B.M.W. Coal Company*
4	1955	Old Hampshire Coal Company, Inc.*
5	1955	Car and Glotfelty 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	United Energy Coal, 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.**
51	1958	D.B.&B. Coal Company**
52	1958	Moon and Sons*
53	1959	George L. Smith Contracting Company*
54	1959	The Georges Creek Lumber Company*
55	1959	Moran Coal Company*
56	1959	North Branch Coal Corporation*
57	1959	George Coal Company**
58	1959	Samuel Compton & Company**
59	1959	Hoover & White*
60	1959	Laurel Creek Company, Inc.**
61	1959	The Eddy Fuel Company**
62	1959	J.R. Thrasher Contracting & Stripping Co.*
63	1959	Pittsburgh Coal Company*
64	1959	Mineral Coal Company, Inc., of West Virginia*
65	1959	Laurel Creek Company, Inc.*
66	1959	The Georges Creek Lumber Company*
67	1959	Chelsie A. Liller*
68	1959	Casey Contracting Company**
69	1959	Pine Mountain Coal Company*
70	1959	Opel and Brenneman*
71	1959	The Georges Creek Lumber Company*
72	1959	P.&J. Coal Company*
73	1959	Casey Contracting Company**
74	1959	Goodwill Fuel Company*
75	1959	D.B.&B. Coal Company*
76	1960	Baughman Contracting Company, Inc.*
77	1960	P&K Coal Company*
78	1960	Morgan Contracting Company*
79	1960	Buffalo Coal Company, Inc.*
80	1960	Buffalo Coal Company, Inc.*
81	1960	Randall Robertson*
82	1960	Hoover & White**
83	1960	James E. George*
84	1960	B.M.W. Coal Company, Inc.*
85	1960	Casey Contracting Company**
86	1960	Beener Coal Company*
87	1960	Moran Coal Company, Inc.*
88	1960	D&K Coal Company*
89	1960	Brenneman Brothers*
90	1960	Mack Coal Company*

91	1960	Clarence Rodamar*
92	1960	James E. George*
93	1961	Casey Contracting Company**
94	1961	Winner Brothers*
95	1961	Moran Coal Company, Inc.*
96	1961	Big Vein Coal Company*
97	1961	Maryland Fuel Company, Inc.*
98	1961	Yantus-Zubek Coal Company*
99	1961	J.R. Thrasher Contracting & Stripping Co.*
100	1961	Trefall Bros., Inc.*
101	1961	Mack Coal Company*
102	1961	C.A. Liller Company*
103	1961	Cross & Brumage Coal Company*
104	1961	Beener Coal Company*
105	1961	D&K Coal Company*
106	1961	Mack Coal Company*
107	1961	Yantus and Zubek*
108	1961	Potomac Mining Company*
109	1962	Casey Contracting Company*
110	1962	Wilhelm Coal Company*
111	1962	The Georges Creek Lumber Company*
112	1962	Clark Coal Company*
113	1962	Casey Contracting Company*
114	1962	Casey Contracting Company*
115	1962	Douglas Coal Company*
116	1962	Red Lion Mining Corporation**
117	1962	Ebensburg Coal and Clay Company*
118	1963	James E. George*
119	1963	Ebensburg Coal and Clay Company*
120	1963	J.R. Thrasher Contracting & Stripping Co.*
121	1963	Moran Coal Company, Inc.*
122	1963	Buffalo Coal Company, Inc.*
123	1963	J.R. Thrasher Contracting & Stripping Co.*
124	1963	Win-More Mining & Construction Co., Inc.*
125	1963	Beener Coal Company*
126	1964	W.R. Nethken and Company, Inc.*
127	1964	Mack Coal Company*
128	1964	J.R. Thrasher Contracting & Stripping Co.*
129	1964	J. Russell Cravener*
130	1964	Chelsie A. Liller*
131	1964	The Georges Creek Lumber Company*
132	1964	Brenneman Brothers*
133	1965	W.R. Nethken and Company, Inc.*
134	1965	Richards and Parnell Coal Company*
135	1965	William Brashear*
136	1965	W.R. Nethken and Company, Inc.*
137	1965	G&S Coal Company, Inc.*
138	1966	J.R. Thrasher Contracting & Stripping Co.*

139	1966	J.R. Thrasher Contracting & Stripping Co.*
140	1966	Shallmar Coal Company, Inc.*
141	1966	Randall Robertson**
142	1966	Ace Drilling Coal Company, Inc.*
143	1966	Beener Coal Company*
144	1966	Clarence Rodamer*
145	1967	Ginniman Coal Company*
146	1967	Raymond A. Wolf Mining Company*
147	1967	Menallen Coke Company*
148	1967	Russel Shafer*
149	1967	Homage Coal Co. (Emmett Duppsstadt)*
150	1967	Twin States Coal Company**
151	1967	M.F. Fetterolf Coal Company, Inc.*
152	1967	Ebensburg Coal and Clay Company*
153	1968	Raymond A. Wolf Mining Co. (UPRC)*
154	1968	Michael Rostosky*
155	1968	Ginniman & Ware Coal Company*
156	1968	Harold H. Upole Coal Company*
157	1968	T.G.&C. Coal Company, Inc.*
158	1969	Clarence Rodamer Coal Company*
159	1969	Michael Rostosky Coal Company*
160	1969	Russel Shafer Coal Company*
161	1969	Buffalo Coal Company, Inc.*
162	1969	J.R. Thrasher Contracting & Stripping Co.***
163	1969	Buffalo Coal Company, Inc.*
164	1969	Union Coal Company*
165	1970	Win-More Mining & Construction Co., Inc.*
166	1970	Ginniman Coal Company*
167	1970	Upperman Coal Company*
168	1970	Frank Pulford**
169	1970	Winner Bros. Coal Company, Inc.*
170	1970	Russel Shafer*
171	1970	The Chief Coal Company*
172	1970	Mary Ruth Corporation*
173	1970	Oakland Coal Company*
174	1971	Bernard C. Drees*
175	1971	Delta Mining, Inc.*
176	1971	D&K Coal Company, Inc.*
177	1971	T.G.&C. Coal Company, Inc.*
178	1971	Emmett Duppsstadt*
179	1971	Somerset Excavating, Inc.*
180	1971	Ayers Coal Company*
181	1971	Delta Mining, Inc.*
182	1971	Patriot Mining Company, Inc.*
183	1971	Chief Coal Company*
184	1971	Cobra Mining, Inc.*
185	1971	Bessemer Iron & Coal Company*
186	1971	Coal Lick Coal Company*

187	1971	Phillips Big Vein Coal Company*
188	1971	Ace Drilling Coal Company, Inc.*
189	1971	Buffalo Coal Company, Inc.*
190	1971	Buffalo Coal Company, Inc.*
191	1971	Keystone Coal and Development Co. (Liability assumed by Garrett County Roads Dept.)
192	1971	Ace Drilling Company, Inc.*
193	1972	Wilhelm Coal, Inc.*
194	1972	M.F. Fetterolf Coal Company, Inc.***
195	1972	Buffalo Coal Company, Inc.*
196	1972	Bessemer Iron & Coal Company*
197	1972	Grafton Coal Company*
198	1972	Jet Fuel Coal Company*
199	1972	Bessemer Iron & Coal Company*
200	1972	Chief Coal Company*
201	1972	Brashear Coal Company*
202	1972	Winner Bros. Coal Company, Inc.*
203	1972	Mary Ruth Corporation*
204	1972	Grafton Coal Company*
205	1972	Chief Coal Company*
206	1972	Upperman Coal Company*
207	1972	United Energy Coal, Inc. **
208	1973	Sanner Bros. Coal Company*
209	1973	Delta Mining, Inc.*
210	1973	Markat, Inc.*
211	1973	Oakland Coal Company*
212	1973	Bessemer Iron & Coal Company*
213	1973	Clise Coal Company*
214	1973	Inter-State Lumber Company*
215	1973	Buffalo Coal Company, Inc.*
216	1973	Brashear Coal Company***
217	1973	Bernard Drees Coal Company*
218	1973	Buffalo Coal Company, Inc.*
219	1973	G&S Coal Company, Inc.*
220	1974	Evans Coal Company*
221	1974	Bridgeview Coal Company*
222	1974	John Duckworth Coal Company*
223	1974	Edward Mikel*
224	1974	Delta Mining, Inc.*
225	1974	Northwest Coal Company, Inc.*
226	1974	Thrasher Coal Company**
227	1974	Winner Bros. Coal Company, Inc.*
228	1974	Bittinger Coal Company*
229	1974	Charles M. Filsinger*
230	1974	G&H Coal Company, Inc.*
231	1974	Hi-Note, Inc.*
232	1974	Buffalo Coal Company, Inc.*
233	1974	Oliver Mining Company**

234	1974	Clise Coal Company*
235	1974	Markat, Inc.*
236	1974	Delta Mining, Inc.*
237	1974	Bridgeview Coal Company*
238	1974	Burnham Coal Company, Inc.*
239	1974	Highland Mining*
240	1974	Buffalo Coal Company, Inc.*
241	1975	Buffalo Coal Company, Inc.*
242	1975	Hopwood Strip Mine, Inc.**
243	1975	Ponderosa Coal Company, Inc.*
244	1975	Markat, Inc.*
245	1975	Phillips Coal, Inc.*
246	1975	Lambert Coal Company*
247	1975	United Energy Coal, Inc. **
248	1975	Buffalo Coal Company, Inc.*
249	1975	Cobra Fuels*
250	1975	Laoc Coal Company*
251	1975	Tower Resources, Inc.*
252	1975	Phillips Coal, Inc.*
253	1975	Pine Mt. Coal Company*
254	1975	T.G.&C. Coal Company*
255	1975	Allegheny Mining Company*
256	1975	Bridgeview Coal Company*
257	1975	A&R Coal Company*
258	1975	Clinton Coal Company**
259	1975	Tower Resources, Inc.*
260	1975	Yough Tree Farm*
261	1975	Russel Shafer***
262	1975	Northwest Coal Company**
263	1975	Allegheny Mining Corporation*
264	1975	Tri-Star Mining, Inc.*
265	1975	Bitteringer Coal Company*
266	1975	Delta Mining, Inc.*
267	1975	Bitteringer Coal Company*
268	1975	Clyde Marsh Coal Company*
269	1975	Hungry Hollow Coal Company*
270	1975	Clise Coal Company*
271	1975	A&R Coal Company*
272	1975	Action Mining, Inc.*
273	1975	Win-More Mining & Construction *
274	1975	Evans Coal Company*
275	1975	Buffalo Coal Company, Inc.*
276	1975	Buffalo Coal Company, Inc.*
277	1975	Allegheny Mining Corporation *
278	1976	Inter-State Lumber Company*
279	1976	Buffalo Coal Company, Inc.*
280	1976	Delta Mining, Inc.*
281	1976	Rondell Company*

282	1976	Phillips Coal, Inc.*
283	1976	G&H Coal Company, Inc.*
284	1976	Tower Resources, Inc.*
285	1976	Clinton Coal Company**
286	1976	Winner Bros. Coal Company, Inc.*
287	1976	T.L. Moran, Inc.*
288	1976	Delta Mining, Inc.*
289	1976	Pine Mt. Coal Company*
290	1976	Delta Mining, Inc.*
291	1976	George Nolan**
292	1976	Alexander Coal Co.*
293	1976	Pine Mt. Coal Company*
294	1976	Arlen Miller***
295	1976	Action Mining, Inc.*
296	1976	Bessemer Iron & Coal Company**
297	1977	Oakland Coal Company *
298	1977	Bittinger Coal Company*
299	1977	Inter-State Lumber, Inc.*
300	1977	Garbart Coal Company*
301	1977	Pine Mt. Coal Company*
302	1977	L.C. Coal Company, Inc.*
303	1977	Ginniman Brothers Coal Company**
304	1977	Buffalo Coal Company, Inc.*
305	1977	Wood Products, Inc.*
306	1977	Bridgeview Coal Company*
307	1977	T.L. Moran, Inc.*
308	1977	Best Coal Stripping, Inc.**
309	1977	Delta Mining, Inc.*
310	1977	Oakland Coal Company*
311	1977	Primrose Coal Company*
312	1977	R.A.K. Coal Company, Inc.**
313	1977	G&S Coal Company*
314	1977	Wilhelm Coal, Inc.**
315	1977	Clise Coal Company*
316	1977	Brawal Mining, Inc.*
317	1977	John R. Livingston**
318	1977	Winner Bros. Coal Company, Inc. *
319	1977	John Duckworth Coal Company*
320	1977	Kelley Enterprises*
321	1978	Delta Mining, Inc.*
322	1978	Bridgeview Coal Company*
323	1978	Ayers Coal Company*
324	1978	John Duckworth Coal Company*
325	1978	G&S Coal Company, Inc.*
326	1978	Buffalo Coal Company, Inc.**
327	1978	Buffalo Coal Company, Inc.*
328	1978	Buffalo Coal Company, Inc. *
329	1978	Winner Bros. Coal Company, Inc.*

330	1978	Inter-State Lumber Company*
331	1978	R.A.K. Coal Company***
332	1978	Seneca Mining Company*
333	1978	Westvaco Corporation*
334	1978	Buffalo Coal Company, Inc.*
335	1978	Inter-State Lumber Company**
336	1978	Inter-State Lumber Company*
337	1978	Kirby Energy, Inc.*
338	1978	Vindex Energy Corporation*
339	1978	Wilhelm Coal, Inc.*
340	1978	Fetterolf Mining, Inc.*
341	1979	Eastern Mining Systems, Inc.**
342	1979	Primrose Coal Company*
343	1979	L.C. Coal Company*
344	1979	Bridgeview Coal Company*
345	1979	Delta Mining, Inc.**
346	1979	Inter-State Lumber Company*
347	1979	Kelley Enterprises*
348	1979	Schwinabart & Green, Joint Venture*
349	1979	Wilhelm Coal, Inc.**
350	1980	Bridgeview Coal Company*
351	1980	Winner Bros. Coal Company, Inc.*
352	1980	John Duckworth Coal Company*
353	1980	Winner Bros. Coal Company, Inc.*
354	1980	Brawal Mining, Inc.*
355	1980	Hi-Note, Inc.*
356	1980	G&S Coal Company, Inc.***
357	1980	Richard Duckworth Coal Company*
358	1980	Bridgeview Coal Company*
359	1980	Buffalo Coal Company, Inc.**
360	1980	Buffalo Coal Company, Inc.*
361	1980	Pamela Mines, Inc.**
362	1980	Alpha Mining, Inc.*
363	1980	Pamela Mines, Inc.**
364	1980	John Duckworth Coal Company*
365	1980	G&S Coal Company, Inc.*
366	1980	Buffalo Coal Company, Inc.*
367	1980	Buffalo Coal Company, Inc.**
368	1980	United Energy Coal, 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	1982	Allegheny Mining Corporation*

378	1982	Delta Mining, Inc.**
379	1982	Masteller Coal Company*
380	1982	Fairview Coal Company (Repermitted 399)*
381	1982	Richard Duckworth Coal Company*
382	1983	Pine Mt. Coal Company*
383	1983	Allegheny Mining Corporation*
384	1983	Evans Coal Company*
385	1983	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	1986	Clise Coal Company
405	1986	Jones Coal, Inc.**
406	1986	Patriot Mining Company, Inc.*
407	1986	Ritchie Trucking & Excavating
408	1986	Tri Star Mining, Inc.*
409	1986	Buffalo Coal Company, Inc.*
410	1987	J. Walter Wassell*
411	1987	Jenkins Development Company
412	1987	John Duckworth Coal Company***
413	1988	Buffalo Coal Company, Inc.*
414	1989	United Energy Coal, Inc.**
415	1989	Pine Mt. Coal Company*
416	1989	Action Mining, Inc.*
417	1989	Tri Star Mining, Inc.*
418	1991	Tri Star Mining, Inc.*
419	1991	Tri Star Mining, Inc.
420	1991	Pine Mt. Coal Company *
421	1992	G&S Coal Company, Inc.
422	1992	Buffalo Coal Company, Inc. **
423	1992	United Energy Coal, Inc. **
424	1995	Pine Mt. Coal Company
425	1995	Tri Star Mining, Inc.*

426	1996	Tri Star Mining, Inc.*
427	1996	Vindex Energy Corp.
428	1997	Mettiki Coal, LLC
429	1997	Tri Star Mining, Inc.*
430	1998	G&S Coal Company, Inc.
431	1998	Vindex Energy Corp.*
432	1999	Vindex Energy Corp.
433	1999	Win-More Mining & Construction*
434	1999	Tri Star Mining, Inc.*
435	2000	G&S Coal Company, Inc.
436	2000	Tri-Star Mining
437	2001	Cobra Mining, Inc.
438	2001	Mountaineer Mining Corp.*
439	2001	Vindex Energy Corp.
440	2001	G&S Coal Company, Inc.
441	2002	G&S Coal Company, Inc.
442	2002	Vindex Energy Corp.
443	2002	Vindex Energy Corporation
444	2003	Tri Star Mining, Inc.
445	2003	United Energy, Inc.**
446	2004	Moran Coal Company
447	2004	Moran Coal Company
448	2005	Jenkins Development Company
449	2005	Savage Mountain Minerals, Inc.
450	2005	Clise Coal Company
451	2006	LAOC Corporation
452	2006	Mountaineer Mining Corporation
453	2006	WPO, Inc.**
454	2007	Walker Brothers Mining, Inc.
455	2007	G&S Coal Company, Inc.
456	2008	G&S Coal Company, Inc.
457	2008	Ritchie Trucking & Excavating, Inc. (Reinstated)
458	2008	Beechwood Coal, LLC
459	2008	Beechwood Coal, LLC. (Reinstated)
460	2009	C&S Coal Company
461	2011	Beechwood Coal, LLC
462	2011	LAOC Corporation
463	2011	Vindex Energy Corporation
464	2012	LAOC Corporation
465	2013	Savage Mountain Minerals
466	2013	Beechwood Coal, LLC
467	2013	ARJ Construction Company, Inc.
468	2019	ARJ Construction Company, Inc.

DEEP MINES

DM 101	1977	Mettiki Coal, LLC
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	Wolf Run Mining*
DM 109	1991	Wolf Run Mining
DM 110	1992	Masteller Coal Company **
DM 111	2000	ARJ Construction
DM 112	2003	Backbone Mountain, LLC
DM 113	2009	Maryland Energy Resources, LLC
DM 114	2017	ARJ Construction Company, Inc.
DM 115	2020	Maryland Energy Resources, LLC

TIPPLES AND GOB PILES

SC-83-101	1983	Buffalo Coal Company*
SC-83-102	1983	Buffalo Coal Company*
SC-83-103	1983	Buffalo Coal Company*
SC-83-104	1983	Buffalo Coal Company **
SC-08-104	2008	Beechwood Coal, LLC (Reinstated)
SC-83-105	1983	Buffalo Coal Company*
SC-83-106		Permit Not Issued
SC-83-107	1983	Delta Coal Sales, Inc**
SC-83-108	1984	Delta Coal Sales, Inc*
SC-83-109		Permit Not Issued
SC-83-110	1983	United Energy Coal, Inc. **
SC-83-111	1983	Westvaco Corporation*
SC-83-112	1983	United Energy Coal, Inc.*
SC-83-113		Permit Not Issued
SC-83-114	1984	Ever, Inc.*
SC-83-115		Permit Not Issued
SC-87-116	1987	Franklin Coal Yard, LLC
SC-87-117	1987	Tri Star Mining, Inc.
SC-87-118	1987	Vindex Energy Corp.
SC-06-119	2006	Clise Coal Company, Inc.*
SC-07-120	2007	G&S Coal Company, Inc.
SC-17-121	2017	Deerhaven Farms, LLC

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