



Maryland

Department of the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

January 17, 2020

The Honorable Bill Ferguson, President
Senate of Maryland
State House, H-107
Annapolis MD 21401-1991

The Honorable Adrienne Jones, Speaker
House of Delegates
State House, H-101
Annapolis, MD 21401-1991

Dear President Ferguson and Speaker Jones:

As required in Section 15-203(g) of the Environment Article, *Annotated Code of Maryland*, I am enclosing a copy of the Calendar Year 2017 Ninety-Sixth Annual Report of the Maryland Bureau of Mines.

If the Department can provide you with any additional information, please contact me or Ms. Kaley Laleker, Director of the Land and Materials Administration, at 410-537-3304 or via email at kaley.laleker@maryland.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Ben Grumbles". The signature is stylized and cursive.

Ben Grumbles
Secretary

Enclosures

cc: Kaley Laleker, Director, Land and Materials Administration
Sarah Albert, Maryland Department of Legislative Services



Maryland
Department of
the Environment

**Ninety-Sixth Annual Report of the
Maryland Bureau of Mines
-2017-**

Prepared by:
Land and Materials Administration
Mining Program

Prepared for:

Larry Hogan, Governor
State of Maryland

Boyd K. Rutherford, Lt. Governor
State of Maryland

Thomas V. Mike Miller, Jr., Senate President
Maryland General Assembly

Adrienne A. Jones, House Speaker
Maryland General Assembly

Senate Education, Health, and Environmental Affairs Committee

House Environment and Transportation Matters Committee

MARYLAND DEPARTMENT OF THE ENVIRONMENT
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Larry Hogan, Governor | Boyd K. Rutherford, Lt. Governor | Ben Grumbles, Secretary

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EXECUTIVE SUMMARY

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

During CY17, Maryland operators produced 2.16 million tons of coal. Surface coal mining production totaled 0.77 million tons in Allegany County, and 0.29 million tons in Garrett County. Deep coal mining production totaled 1.10 million tons, all in Garrett County.

MDE's Bureau of Mines received 70 coal mine permit applications, and approved 73 permitting actions, including three permit amendments. Included in the permitting actions were 23 operator's license renewals. Other permit actions included modifications, transfers, and prospecting permits.

Two hundred thirty-eight acres were affected, 119 acres rough backfilled, and 209 acres were vegetatively stabilized with a variety of grasses, legumes and trees. The bond was totally released on 71 acres.

Seven hundred seventy inspections were conducted on coal mining operations. Seven Notices of Violation were issued. Fifteen Citizen Complaints were received and investigated, and there were no cessation orders issued. There were no Permit Revocations or Bond Forfeitures..

The Land Reclamation Committee met six times and approved two2 reclamation plans. The Committee also evaluated the revegetation on 333 acres eligible for Phase II bond release, and approved 322 acres as meeting the standards for release. There were two reclamation plan changes during the year.

SUMMARY TABLE	2017
Permits - new	47 acres
Permits - renewals	23 acres
Permits - amended	3 acres
Area stripped	238 acres
Area planted	209 acres
Bond release	71 acres

**SUMMARY OF STATISTICS FOR THE CY17
REPORT OF THE MARYLAND BUREAU OF MINES**

Coal production in Maryland during 2017 totaled 2,162,009.62 tons. Production in 2017 represents an increase of 153,191.57 tons over the 2016 production of 2,008,818.05 tons.

**SUMMARY OF 2017
STATISTICS¹**

COAL PRODUCTION (TONS)

Mining Method	Allegany County	Garrett County	Total
Strip	779,609.05	290,484.17	1,070,093.22
Deep	.00	1,091,916.40	1,091,916.40
Auger	.00	.00	.00
TOTALS	779,609.05	1,382,400.57	2,162,009.62

EMPLOYEES²

Type of Mine	Allegany County	Garrett County	Total
Deep	0	133	133
Strip	87	82	169
TOTALS	87	215	302

¹Obtained from reports submitted by Maryland mining operators.

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

TONNAGE BY COAL SEAMS

ALLEGANY COUNTY

Waynesburg	11,480.87
Sewickley	24,968.35
Redstone	250,555.21
Pittsburgh	384,251.40
Morantown	39,828.71
L. Pittsburgh	53,644.67
Franklin	0.00
Harlem	0.00
Bakerstown	0.00
Freeport	0.00
Tyson	14,879.84
Borden	0.00
Barton	0.00

TOTAL 779,609.05

GARRETT COUNTY

Sewickley	1,846.66
Pittsburgh	64,588.64
Morantown	12,788.51
L. Pittsburgh	44,668.13
Franklin	11,158.71
Barton	259,280.86
Harlem	18,378.16
Bakerstown	84,775.25
Freeport	875,132.00
Upper Kittanning	0.00
Middle Kittanning	0.00
Redstone	9,783.65
Tyson	0.00
Waynesburg	0.00

TOTAL 1,382,400.57

TONNAGE BY BASIN

Lower Youghiogheny	0.00
Upper Youghiogheny	0.00
Casselman	875,132.00
Casselman-Cherry Creek	0.00
Potomac	45,144.72
George's Creek	1,241,732.90

TOTAL 2,162,009.62

**2017 COAL PRODUCTION, MINING, AND RECLAMATION
STATISTICS BY PERMIT
FOR ALLEGANY & GARRETT COUNTIES***

ALLEGANY COUNTY

Operator	Permit Number	Total Tonnage Mined by Permit	Coal Seam	PRODUCTION (TONS)		
				Deep	Strip	Auger
Beechwood Coal, LLC	359	0.00	Pittsburgh		0.00	
			Morantown		0.00	
	393	165,068.86	Redstone		0.00	
			Pittsburgh		111,498.07	
			Redstone		45,317.11	
	439	244,152.17	Morantown		8,253.68	
			Bakerstown		0.00	
			Tyson		13,649.78	
			Sewickley		18,366.00	
			Pittsburgh		121,928.45	
			Waynesburg		0.00	
			Redstone		79,953.90	
			Morantown		10,254.04	
	442	11,480.87	Waynesburg		11,480.87	
			Little Pittsburgh		0.00	
			Morantown		0.00	
	451	58,721.73	Pittsburgh		0.00	
			Morantown		0.00	
			Redstone		58,721.73	
			Sewickley		0.00	
Pittsburgh				23,449.05		
457	39,027.45	Redstone		15,464.29		
		Morantown		0.00		
		Tyson		114.11		
		Redstone		0.00		
		Pittsburgh		0.00		
462	1,115.95	Redstone		0.00		
		Pittsburgh		0.00		
C & S Coal	456	8,209.28	Tyson		1,115.95	
			Pittsburgh		7,596.24	
			Redstone		613.04	

Cobra Mining	437	26,891.41	Pittsburgh	26,480.17
			Morantown	362.90
			Redstone	48.34
G & S Coal	440	0.00	Little Pittsburgh	0.00
			Pittsburgh	0.00
			Morantown	0.00
			Franklin	0.00
Tri-Star Mining	419	8,679.33	Pittsburgh	0.00
			Little Pittsburgh	0.00
			Morantown	0.00
			Redstone	2,076.98
			Sewickley	6,602.35
			Waynesburg	0.00
	436	127,016.35	Franklin	0.00
			Little Pittsburgh	53,644.67
			Pittsburgh	58,906.46
			Redstone	2,664.61
			Morantown	11,800.61
			Sewickley	0.00
Walker Bros. Mining, Inc.	453	89,245.65	Pittsburgh	34,392.96
			Morantown	9,157.48
			Redstone	45,695.21
TOTAL ALLEGANY COUNTY		779,609.05		779,609.05

GARRETT COUNTY

Operator	Permit Number	Total Tonnage Mined by Permit	PRODUCTION (TONS)			Auger
			Coal Seam	Deep	Strip	
ARJ Construction	DM111	216,784.40	Barton	216,784.40		
	463	64,336.77	Lower Bakerstown		64,336.77	
G & S Coal Company, Inc.	421	0.00	Franklin		0.00	
	435	11,470.78	Bakerstown		0.00	
			Barton		6,328.08	
			Harlem		5,142.70	
	454	33,673.94	Barton		0.00	
			Harlem		13,235.46	
			Bakerstown		20,438.48	

	455	0.00	Harlem		0.00
MER, LLC	DM113	875,132.00	Upper Freeport	875,132.00	
Pine Mountain Coal Company	424	7,398.99	Pittsburgh		2,833.58
			Morantown		837.71
			Redstone		1,646.82
			Franklin		2,080.88
Savage Mountain Minerals, Inc.	445	0.00	Little Pittsburgh		0.00
	446	213.12	Sewickley		213.12
			Morantown		0.00
			Pittsburgh		1,499.98
	448	9,077.83	Barton		0.00
			Pittsburgh		0.00
			Franklin		9,077.83
	461	36,168.38	Barton		36,168.38
Tri-Star Mining, Inc.	419	128,144.36	Pittsburgh		61,755.06
			Little Pittsburgh		44,668.13
			Redstone		8,136.83
			Morantown		11,950.80
			Barton		0.00
			Sewickley		1,633.54
TOTAL GARRETT COUNTY		1,382,400.57		1,091,916.40	290,484.17
TOTAL BOTH COUNTIES		2,162,009.62		1,091,916.40	1,070,093.22

SUMMARY OF LAND MINED, BACKFILLED, PLANTED, AND RELEASED

Allegany County

George's Creek Basin

Mining Company	Permit	Acres Permitted	Affected Acres	Backfilled Acres	Planted Acres
Beechwood Coal, LLC	359	0	0	0	0
Beechwood Coal, LLC	393	224	35	16	16
Beechwood Coal, LLC	439	0	9	0	0
Beechwood Coal, LLC	451	0	4	22	22
Beechwood Coal, LLC	457	0	2	3	3
Beechwood Coal, LLC	462	0	3	10	10
C & S Coal Company	456	0	3	0	0
Cobra Mining	437	18	6	0	0
G&S Coal Company, Inc.	440	0	3	0	0
Ritchie Trucking & Excavating, Inc.	40	0	0	0	0
Tri-Star Mining, Inc.	419	0	8	9	9
Tri-Star Mining, Inc.	436	49	6	0	0
Vindex Energy Corporation	432	0	0	0	0
Beechwood Coal, LLC	442	0	0	0	0
Walker Brothers Mining, Inc.	453	2	16	0	0

George's Creek Basin(Allegany County) Total

293 95 60 60

Garrett County

George's Creek Basin

Mining Company	Permit	Acres Permitted	Affected Acres	Backfilled Acres	Planted Acres
ARJ Construction Company, Inc.	111	0	0	0	0
ARJ Construction Company, Inc.	463	19	28	27	27
Pine Mountain Coal Company	424	0	0	0	1
Savage Mountain Minerals	445	0	0	1	6

Savage Mountain Minerals	446	0	0	26	0
Savage Mountain Minerals	448	10	0	0	0
Savage Mountain Minerals	461	0	31	0	16

George's Creek Basin(Garrett County) Total

29	59	54	50
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Total for Georges Creek Basin in both Garrett & Allegany Counties

322	154	114	110
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Garrett County

Casselman Basin

<u>Mining Company</u>	<u>Permit</u>	<u>Acres Permitted</u>	<u>Affected Acres</u>	<u>Backfilled Acres</u>	<u>Planted Acres</u>
Maryland Energy Resources, LLC	113	0	0	0	0
Casselman Basin Total		0	0	0	0

Potomac River Basin

<u>Mining Company</u>	<u>Permit</u>	<u>Acres Permitted</u>	<u>Affected Acres</u>	<u>Backfilled Acres</u>	<u>Planted Acres</u>
Backbone Mountain, LLC	112	0	0	0	0
G&S Coal Company, Inc.	421	0	0	0	0
G&S Coal Company, Inc.	435	0	14	0	0
G&S Coal Company, Inc.	454	0	4	5	0
G&S Coal Company, Inc.	455	0	0	0	0
LAOC Corporation	458	0	0	0	0
Metiki Coal, LLC	101	0	0	0	0
Vindex Energy Corporation	459	34	66	0	99
Wolf Run Mining Company	109	0	0	0	0
Potomac River Basin Total		34	84	5	99

Youghiogheny River Basin

Mining Company	Permit	Acres Permitted	Affected Acres	Backfilled Acres	Planted Acres
LAOC Corporation	460	0	0	0	0
Youghiogheny River Basin Total		0	0	0	0
Total All Garrett County Basins		63	143	59	149
Total All Allegany County Basins		293	95	60	60
Total All Garrett & Allegany Basins		356	238	119	209

SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 2017

(By Geological Basin)

ACRES THIS YEAR

	Permitted	Affected	Backfilled	Planted
Allegany County:				
Georges Creek Basin	293.00	95.00	60.00	60.00
Garrett County:				
Georges Creek Basin	29.00	59.00	54.00	50.00
Potomac River Basin	34.00	84.00	5.00	99.00
Casselman Basin**	0.00	0.00	0.00	0.00
Cherry Creek Basin	0.00	0.00	0.00	0.00
Upper Yough Basin	0.00	0.00	0.00	0.00
Lower Yough Basin	0.00	0.00	0.00	0.00
TOTAL GARRETT COUNTY	63.00	143.00	59.00	149.00
TOTAL BOTH COUNTIES	356.00	238.00	119.00	209.00

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 2017

Allegany County:				
Georges Creek Basin	9057.00	7903.00	6,492.00	6,796.00
Garrett County:				
Georges Creek Basin	3436.00	3,086.00	2,746.00	2,985.00
Potomac River Basin	6,110.00	5,429.00	4,851.00	5,227.00
Casselman Basin**	1,452.00	1,163.00	1,261.00	1,142.00
Cherry Creek Basin**	667.00	672.00	579.00	546.00
Upper Yough Basin	230.00	157.00	215.00	189.00
Lower Yough Basin	1,335.00	921.00	1,145.00	1,088.00
TOTAL GARRETT COUNTY	13,230.00	11,428.00	10,797.00	11,177.00
TOTAL BOTH COUNTIES	22287.00	19,331.00	17,289.00	17,973.00

2017 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	50	0	1	30	0	0	0	1	1	30
Permit Increments	2	1	10	1	0	0	0	0	0	3	1	10
Modifications With Acreage	1	2	0	1	1	0	0	0	0	2	3	0
Modifications Without Acreage	20	22		4	0		1	0		25	22	
Transfers	1	6		0	1		0	2		1	9	
Renewals	7	7		0	2		4	4		11	11	
Prospecting Permits	1	0		0	0		0	0		1	0	
Prospecting Letter of Intent	0	0		0	0		0	0		0	0	
Operator's License Original	3	3		0	0		0	0		3	3	
Operator's License Renewals	18	18		5	5		0	0		23	23	
Totals	54	59	60	11	10	30	5	6	0	70	73	40

MINE FOREMAN AND FIRE BOSS EXAMINATIONS AND CERTIFICATIONS

Mine Foreman and Fire Boss applicants examined and certified from 2000 through 2017:

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
2017	0	0	0	0
2016	0	0	0	0
2015	0	0	0	0
2014	11	0	11	0
2013	0	0	0	0
2012	5	4	5	4
2011	16	8	15	7
2010	11	19	11	19
2009	5*	0	5*	0
2008	0	8	0	9 (1)*
2007	1	12	1	12
2006	6	5	11 (5)*	5
2005	0	0	0	0
2004	1	4	3	4
2003	0	0	0	0
2002	12	2	12	2
2001	0	0	0	0
2000	14	8	14	8

(#)* Certifications issued in accordance with the reciprocity agreement between West Virginia and Maryland.

INSPECTION AND ENFORCEMENT ACTIVITIES 2013-2017

TYPE OF ACTION	2013	2014	2015	2016	2017
Inspections	782	839	865	768	770
Notices of Violations	6	11	19	15	7
Cessation Orders	1	2	5	6	0
Citizen Complaints	31	20	26	18	15
Bond Forfeitures	0	0	0	1	0

LAND RECLAMATION COMMITTEE

The following members served on the Land Reclamation Committee during 2017:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES:

Ed Larrimore, Chairman, MDE Land & Materials Administration
John E. Carey, MDE Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

Jim Mullan, Wildlife Division
George Eberling, Forestry Division
Alan Klotz, Freshwater Fisheries

CITIZEN REPRESENTATIVES:

Margaret Jamison, Garrett County
Bill Pegg, Allegany County

COUNTY REPRESENTATIVES:

Jeff Barclay, Allegany County
Bill DeVore, Garrett County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Adam Heavner, Allegany Soil Conservation District
Shaun Sanders, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

Tim Schwinabart
Jim Ashby

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 2017, the Land Reclamation Committee conducted site visits on three days. These visits included field reviews of two proposed mining sites, and 17 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 2017, the Land Reclamation Committee met six times. During these meetings, the Land Reclamation Committee approved two reclamation plans for new mining areas. They also evaluated 333 acres of revegetation eligible for Phase II bond release, and approved 322 acres as meeting the standards for release. There were two reclamation plan changes during the year.

Reclamation Results of Surface Mined Lands 2017		
Bond Release Phase	Applicable Performance Standard	Acreage Released
Phase I	<ul style="list-style-type: none"> ● 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 	83
Phase II	<ul style="list-style-type: none"> ● 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 	322

	<ul style="list-style-type: none"> ● Land Reclamation Committee has inspected and approved the revegetation on the area 	
Phase III	<ul style="list-style-type: none"> ● 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 	332

2017 RECLAMATION AWARD

Permit SM-96-427 Vindex Energy, LLC

This site was previously deep mined and strip mined prior to Vindex Energy, LLC beginning its mining operation at this site in 2006. An underground mine fire had spread throughout much of this site, which is located near Barton, Maryland. Abandoned highwalls from previous strip mining ringed the hillside. The 149-acre site was mined for 17 years. The mining and subsequent reclamation quenched the fire and eliminated the highwalls within the site. The site was reclaimed using the Forest Reclamation Approach. This style of reclamation prepares the surface of the site in a non-compacted condition and includes the planting of native hardwoods to establish a viable forest. The reduced compaction of the surface increases the survival rate and growth rate of the trees.

Past Reclamation Award Winners*

<u>Year</u>	<u>Name of Company</u>	<u>Permit</u>
1984	Bridgeview Coal Company	356
1985	Brashear Coal Company	264
1986	Buffalo Coal Company	366
1987	Delta Mining, Inc.	345
1988	Beener Coal Company	143
1989	Brashear Coal Company	264
1990	Action Mining Company	394
1991	Patriot Mining Company	406
1992	S & G Coal Company	348
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

*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

Permit No.	Year Issued	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 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	2008	Ritchie Trucking & Excavating, Inc. (Reinstated in 2008)
42	1958	Buffalo Coal Company, Inc.*
43	1958	Casey Construction Company**
44	1958	Sara-Ki Coal Company, Inc.*
45	1958	Yantus & Zubek Coal Company*
46	1958	Moran Coal Company*
47	1958	Casey Construction Company**
48	1958	Moran Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
49	1958	Moran Coal Company*
50	1958	Sara-Ki Coal Company, Inc.*
51	1958	Laurel Creek Company, Inc.**
52	1958	D.B.&B. Coal Company**
53	1958	Moon and Sons*
54	1959	George L. Smith Contracting Company*
55	1959	The Georges Creek Lumber Company*
56	1959	Moran Coal Company*
57	1959	North Branch Coal Corporation*
58	1959	George Coal Company**
59	1959	Samuel Compton & Company**
60	1959	Hoover & White*
61	1959	Laurel Creek Company, Inc.**
62	1959	The Eddy Fuel Company**
63	1959	J.R. Thrasher Contracting & Stripping Co.*
64	1959	Pittsburgh Coal Company*
65	1959	Mineral Coal Company, Inc., of West Virginia*
66	1959	Laurel Creek Company, Inc.*
67	1959	The Georges Creek Lumber Company*
68	1959	Chelsie A. Liller*
69	1959	Casey Contracting Company**
70	1959	Pine Mountain Coal Company*
71	1959	Opel and Brenneman*
72	1959	The Georges Creek Lumber Company*
73	1959	P.&J. Coal Company*
74	1959	Casey Contracting Company**
75	1959	Goodwill Fuel Company*
76	1959	D.B.&B. Coal Company*
77	1960	Baughman Contracting Company, Inc.*
78	1960	P&K Coal Company*
79	1960	Morgan Contracting Company*
80	1960	Buffalo Coal Company, Inc.*
81	1960	Buffalo Coal Company, Inc.*
82	1960	Randall Robertson*
83	1960	Hoover & White**
84	1960	James E. George*
85	1960	B.M.W. Coal Company, Inc.*
86	1960	Casey Contracting Company**
87	1960	Beener Coal Company*
88	1960	Moran Coal Company, Inc.*

89	1960	D&K Coal Company*
90	1960	Brenneman Brothers*
91	1960	Mack Coal Company*
92	1960	Clarence Rodamar*
93	1960	James E. George*
94	1961	Casey Contracting Company**
95	1961	Winner Brothers*
96	1961	Moran Coal Company, Inc.*
97	1961	Big Vein Coal Company*
98	1961	Maryland Fuel Company, Inc.*
99	1961	Yantus-Zubek Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
100	1961	J.R. Thrasher Contracting & Stripping Co.*
101	1961	Trefall Bros., Inc.*
102	1961	Mack Coal Comany*
103	1961	C.A. Liller Company*
104	1961	Cross & Brumage Coal Company*
105	1961	Beener Coal Company*
106	1961	D&K Coal Company*
107	1961	Mack Coal Company*
108	1961	Yantus and Zubek*
109	1961	Potomac Mining Company*
110	1962	Casey Contracting Company*
111	1962	Wilhelm Coal Company*
112	1962	The Georges Creek Lumber Company*
113	1962	Clark Coal Company*
114	1962	Casey Contracting Company*
115	1962	Casey Contracting Company*
116	1962	Douglas Coal Company*
117	1962	Red Lion Mining Corporation**
118	1962	Ebensburg Coal and Clay Company*
119	1963	James E. George*
120	1963	Ebensburg Coal and Clay Company*
121	1963	J.R. Thrasher Contracting & Stripping Co.*
122	1963	Moran Coal Company, Inc.*
123	1963	Buffalo Coal Company, Inc.*
124	1963	J.R. Thrasher Contracting & Stripping Co.*
125	1963	Win-More Mining & Construction Co., Inc.*
126	1963	Beener Coal Company*
127	1964	W.R. Nethken and Company, Inc.*
128	1964	Mack Coal Company*
129	1964	J.R. Thrasher Contracting & Stripping Co.*
130	1964	J. Russell Cravener*
131	1964	Chelsie A. Liller*
132	1964	The Georges Creek Lumber Company*
133	1964	Brenneman Brothers*
134	1965	W.R. Nethken and Company, Inc.*
135	1965	Richards and Parnell Coal Company*
136	1965	William Brashear*
137	1965	W.R. Nethken and Company, Inc.*
138	1965	G&S Coal Company, Inc.*
139	1966	J.R. Thrasher Contracting & Stripping Co.*
140	1966	J.R. Thrasher Contracting & Stripping Co.*

141	1966	Shallmar Coal Company, Inc.*
142	1966	Randall Robertson**
143	1966	Ace Drilling Coal Company, Inc.*
144	1966	Beener Coal Company*
145	1966	Clarence Rodamer*
146	1967	Ginniman Coal Company*
147	1967	Raymond A. Wolf Mining Company*
148	1967	Menallen Coke Company*
149	1967	Russel Shafer*
150	1967	Homage Coal Co. (Emmett Duppstadt)*
151	1967	Twin States Coal Company**

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
152	1967	M.F. Fetterolf Coal Company, Inc.*
153	1967	Ebensburg Coal and Clay Company*
154	1968	Raymond A. Wolf Mining Co. (UPRC)*
155	1968	Michael Rostosky*
156	1968	Ginniman & Ware Coal Company*
157	1968	Harold H. Upole Coal Company*
158	1968	T.G.&C. Coal Company, Inc.*
159	1969	Clarence Rodamer Coal Company*
160	1969	Michael Rostosky Coal Company*
161	1969	Russel Shafer Coal Company*
162	1969	Buffalo Coal Company, Inc.*
163	1969	J.R. Thrasher Contracting & Stripping Co.***
164	1969	Buffalo Coal Company, Inc.*
165	1969	Union Coal Company*
166	1970	Win-More Mining & Construction Co., Inc.*
167	1970	Ginniman Coal Company*
168	1970	Upperman Coal Company*
169	1970	Frank Pulford**
170	1970	Winner Bros. Coal Company, Inc.*
171	1970	Russel Shafer*
172	1970	The Chief Coal Company*
173	1970	Mary Ruth Corporation*
174	1970	Oakland Coal Company*
175	1971	Bernard C. Drees*
176	1971	Delta Mining, Inc.*
177	1971	D&K Coal Company, Inc.*
178	1971	T.G.&C. Coal Company, Inc.*
179	1971	Emmett Duppstadt*
180	1971	Somerset Excavating, Inc.*
181	1971	Ayers Coal Company*
182	1971	Delta Mining, Inc.*
183	1971	Patriot Mining Company, Inc.*
184	1971	Chief Coal Company*
185	1971	Cobra Mining, Inc.*
186	1971	Bessemer Iron & Coal Company*
187	1971	Coal Lick Coal Company*
188	1971	Phillips Big Vein Coal Company*
189	1971	Ace Drilling Coal Company, Inc.*
190	1971	Buffalo Coal Company, Inc.*
191	1971	Buffalo Coal Company, Inc.*
192	1971	Keystone Coal and Development Company

(Liability Assumed by Garrett County Roads Department)

193	1971	Ace Drilling Company, Inc.*
194	1972	Wilhelm Coal, Inc.*
195	1972	M.F. Fetterolf Coal Company, Inc.***
196	1972	Buffalo Coal Company, Inc.*
197	1972	Bessemer Iron & Coal Company*
198	1972	Grafton Coal Company*
199	1972	Jet Fuel Coal Company*
200	1972	Bessemer Iron & Coal Company*
201	1972	Chief Coal Company*
202	1972	Brashear Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
203	1972	Winner Bros. Coal Company, Inc.*
204	1972	Mary Ruth Corporation*
205	1972	Grafton Coal Company*
206	1972	Chief Coal Company*
207	1972	Upperman Coal Company*
208	1972	United Energy Coal, Inc.**
209	1973	Sanner Bros. Coal Company*
210	1973	Delta Mining, Inc.*
211	1973	Markat, Inc.*
212	1973	Oakland Coal Company*
213	1973	Bessemer Iron & Coal Company*
214	1973	Clise Coal Company*
215	1973	Inter-State Lumber Company*
216	1973	Buffalo Coal Company, Inc.*
217	1973	Brashear Coal Company***
218	1973	Bernard Drees Coal Company*
219	1973	Buffalo Coal Company, Inc.*
220	1973	G&S Coal Company, Inc.*
221	1974	Evans Coal Company*
222	1974	Bridgeview Coal Company*
223	1974	John Duckworth Coal Company*
224	1974	Edward Mikel*
225	1974	Delta Mining, Inc.*
226	1974	Northwest Coal Company, Inc.*
227	1974	Thrasher Coal Company**
228	1974	Winner Bros. Coal Company, Inc.*
229	1974	Bittinger Coal Company*
230	1974	Charles M. Filsinger*
231	1974	G&H Coal Company, Inc.*
232	1974	Hi-Note, Inc.*
233	1974	Buffalo Coal Company, Inc.*
234	1974	Oliver Mining Company**
235	1974	Clise Coal Company*
236	1974	Markat, Inc.*
237	1974	Delta Mining, Inc.*
238	1974	Bridgeview Coal Company*
239	1974	Burnham Coal Company, Inc.*
240	1974	Highland Mining*
241	1974	Buffalo Coal Company, Inc.*
242	1975	Buffalo Coal Company, Inc.*
243	1975	Hopwood Strip Mine, Inc.**

244	1975	Ponderosa Coal Company, Inc.*
245	1975	Markat, Inc.*
246	1975	Phillips Coal, Inc.*
247	1975	Lambert Coal Company*
248	1975	United Energy Coal, Inc.**
249	1975	Buffalo Coal Company, Inc.*
250	1975	Cobra Fuels*
251	1975	Laoc Coal Company*
252	1975	Tower Resources, Inc.*
253	1975	Phillips Coal, Inc.*
254	1975	Pine Mt. Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
255	1975	T.G.&C. Coal Company*
256	1975	Allegheny Mining Company*
257	1975	Bridgeview Coal Company*
258	1975	A&R Coal Company*
259	1975	Clinton Coal Company**
260	1975	Tower Resources, Inc.*
261	1975	Yough Tree Farm*
262	1975	Russel Shafer***
263	1975	Northwest Coal Company**
264	1975	Allegheny Mining Corporation*
265	1975	Tri-Star Mining, Inc.*
266	1975	Bittering Coal Company*
267	1975	Delta Mining, Inc.*
268	1975	Bittering Coal Company*
269	1975	Clyde Marsh Coal Company*
270	1975	Hungry Hollow Coal Company*
271	1975	Clise Coal Company*
272	1975	A&R Coal Company*
273	1975	Action Mining, Inc.*
274	1975	Win-More Mining & Construction *
275	1975	Evans Coal Company*
276	1975	Buffalo Coal Company, Inc.*
277	1975	Buffalo Coal Company, Inc.*
278	1975	Allegheny Mining Corporation *
279	1976	Inter-State Lumber Company*
280	1976	Buffalo Coal Company, Inc.*
281	1976	Delta Mining, Inc.*
282	1976	Rondell Company*
283	1976	Phillips Coal, Inc.*
284	1976	G&H Coal Company, Inc.*
285	1976	Tower Resources, Inc.*
286	1976	Clinton Coal Company**
287	1976	Winner Bros. Coal Company, Inc.*
288	1976	T.L. Moran, Inc.*
289	1976	Delta Mining, Inc.*
290	1976	Pine Mt. Coal Company*
291	1976	Delta Mining, Inc.*
292	1976	George Nolan**
293	1976	Alexander Coal Co.*
294	1976	Pine Mt. Coal Company*
295	1976	Arlen Miller***

296	1976	Action Mining, Inc.*
297	1976	Bessemer Iron & Coal Company**
298	1977	Oakland Coal Company *
299	1977	Bittinger Coal Company*
300	1977	Inter-State Lumber, Inc.*
301	1977	Garbart Coal Company*
302	1977	Pine Mt. Coal Company*
303	1977	L.C. Coal Company, Inc.*
304	1977	Ginniman Brothers Coal Company**
305	1977	Buffalo Coal Company, Inc.*
306	1977	Wood Products, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
307	1977	Bridgeview Coal Company*
308	1977	T.L. Moran, Inc.*
309	1977	Best Coal Stripping, Inc.**
310	1977	Delta Mining, Inc.*
311	1977	Oakland Coal Company*
312	1977	Primrose Coal Company*
313	1977	R.A.K. Coal Company, Inc.**
314	1977	G&S Coal Company*
315	1977	Wilhelm Coal, Inc.**
316	1977	Clise Coal Company*
317	1977	Brawal Mining, Inc.*
318	1977	John R. Livingston**
319	1977	Winner Bros. Coal Company, Inc. *
320	1977	John Duckworth Coal Company*
321	1977	Kelley Enterprises*
322	1978	Delta Mining, Inc.*
323	1978	Bridgeview Coal Company*
324	1978	Ayers Coal Company*
325	1978	John Duckworth Coal Company*
326	1978	G&S Coal Company, Inc.*
327	1978	Buffalo Coal Company, Inc.**
328	1978	Buffalo Coal Company, Inc.*
329	1978	Buffalo Coal Company, Inc. *
330	1978	Winner Bros. Coal Company, Inc.*
331	1978	Inter-State Lumber Company*
332	1978	R.A.K. Coal Company***
333	1978	Seneca Mining Company*
334	1978	Westvaco Corporation*
335	1978	Buffalo Coal Company, Inc.*
336	1978	Inter-State Lumber Company**
337	1978	Inter-State Lumber Company*
338	1978	Kirby Energy, Inc.*
339	1978	Vindex Energy Corporation*
340	1978	Wilhelm Coal, Inc.*
341	1978	Fetterolf Mining, Inc.*
342	1979	Eastern Mining Systems, Inc.**
343	1979	Primrose Coal Company*
344	1979	L.C. Coal Company*
345	1979	Bridgeview Coal Company*
346	1979	Delta Mining, Inc.**

347	1979	Inter-State Lumber Company*
348	1979	Kelley Enterprises*
349	1979	Schwinabart & Green, Joint Venture*
350	1979	Wilhelm Coal, Inc.**
351	1980	Bridgeview Coal Company*
352	1980	Winner Bros. Coal Company, Inc.*
353	1980	John Duckworth Coal Company*
354	1980	Winner Bros. Coal Company, Inc.*
355	1980	Brawal Mining, Inc.*
356	1980	Hi-Note, Inc.*
357	1980	G&S Coal Company, Inc.***
358	1980	Richard Duckworth Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
359	1980	Bridgeview Coal Company*
360	1980	Buffalo Coal Company, Inc.**
361	2008	Beechwood Coal, LLC. (Reinstated)
362	1980	Buffalo Coal Company, Inc.*
363	1980	Pamela Mines, Inc.**
364	1980	Alpha Mining, Inc.*
365	1980	Pamela Mines, Inc.**
366	1980	John Duckworth Coal Company*
367	1980	G&S Coal Company, Inc.*
368	1980	Buffalo Coal Company, Inc.*
369	1980	Buffalo Coal Company, Inc.**
370	1980	United Energy Coal, Inc.**
371	1980	Bittinger Coal Company*
372	1982	Keystone Mt. Development Company*
373	1982	Eagle Mining, Inc.*
374	1982	John Duckworth Coal Company*
375	1982	Kirby Energy, Inc. **
376	1982	Winner Bros. Coal Company, Inc. *
377	1982	Win-More Mining & Construction Company *
378	1982	Jones Coal, Inc.**
379	1982	Allegheny Mining Corporation*
380	1982	Delta Mining, Inc.**
381	1982	Masteller Coal Company*
382	1982	Fairview Coal Company (Repermitted 399)*
383	1982	Richard Duckworth Coal Company*
384	1983	Pine Mt. Coal Company*
385	1983	Allegheny Mining Corporation*
386	1983	Evans Coal Company*
387	1983	Winner Bros. Coal Company, Inc.*
388	1983	Jones Mining, Inc.*
389	1983	Hilltop Construction Company**
390	1983	Fetterolf Mining, Inc.*
391	1983	Winner Bros. Coal Company, Inc.*
392	1983	C.J. Merlo, Inc.*
393	1983	Oak Springs Coal Company*
394	1984	Westvaco Resources, Inc.*
395	1984	Patriot Mining Company, Inc.
396	1984	Action Mining, Inc.*
397	1984	Stan-Jan Excavating, Inc.*
398	1984	Allegheny Mining Corporation*

399	1985	Michael R. McGowan*
400	1985	Brashear Coal Company*
401	1985	Fairview Coal Company
402	1985	Delta Mining, Inc.*
403	1985	Buffalo Coal Company, Inc.***
404	1985	Pine Mt. Coal Company*
405	1985	T.D. Mining Company**
406	2003	United Energy, Inc.**
407	2008	Beechwood Coal,LLC
408	1986	Clise Coal Company
409	1986	Jones Coal, Inc.**
410	1986	Patriot Mining Company, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
411	1986	Ritchie Trucking & Excavating
412	1986	Tri Star Mining, Inc.*
413	1986	Buffalo Coal Company, Inc.*
414	1987	J. Walter Wassell*
415	1987	Jenkins Development Company
416	1987	John Duckworth Coal Company***
417	1988	Buffalo Coal Company, Inc.*
418	1989	United Energy Coal, Inc.**
419	1989	Pine Mt. Coal Company*
420	1989	Action Mining, Inc.*
421	1989	Tri Star Mining, Inc.*
422	1991	Tri Star Mining, Inc.*
423	1991	Tri Star Mining, Inc.
424	1991	Pine Mt. Coal Company *
425	1992	G&S Coal Company, Inc.
426	1992	Buffalo Coal Company, Inc. **
427	1992	United Energy Coal, Inc. **
428	1995	Pine Mt. Coal Company
429	1995	Tri Star Mining, Inc.*
430	1996	Tri Star Mining, Inc.*
431	1996	Vindex Energy Corp.
432	1997	Mettiki Coal, LLC
433	1997	Tri Star Mining, Inc.*
434	1998	G&S Coal Company, Inc.
435	1998	Vindex Energy Corp.*
436	1999	Vindex Energy Corp.
437	1999	Win-More Mining & Construction*
438	1999	Tri Star Mining, Inc.*
439	2000	G&S Coal Company, Inc.
440	2000	Tri-Star Mining
441	2001	Cobra Mining, Inc.
442	2001	Mountaineer Mining Corp.*
443	2001	Vindex Energy Corp.
444	2001	G&S Coal Company, Inc.
445	2002	G&S Coal Company, Inc.
446	2002	Vindex Energy Corp.
447	2002	Vindex Energy Corporation
448	2003	Tri Star Mining, Inc.
449	2004	Moran Coal Company

450	2004	Moran Coal Company
451	2005	Jenkins Development Company
452	2005	Savage Mountain Minerals, Inc.
453	2005	Clise Coal Company
454	2006	LAOC Corporation
455	2006	Mountaineer Mining Corporation
456	2006	WPO, Inc.**
457	2007	Walker Brothers Mining, Inc.
458	2007	G&S Coal Company, Inc.
459	2008	G&S Coal Company, Inc.
460	2009	C&S Coal Company

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
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.

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

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
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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.

*Operation Completed and Bond Released **Bond Forfeited ***Inactive