



Bureau of Mines Annual Report

Maryland Department of the Environment

Submitted December 1, 2025

Maryland General Assembly

Reporting Period Fiscal Year 2025



Wes Moore
Governor

Aruna Miller
Lieutenant Governor

Serena McIlwain
Secretary

Suzanne Dorsey
Deputy Secretary

Adam Ortiz
Deputy Secretary

TABLE OF CONTENTS

| | |
|--|----|
| Executive Summary | 1 |
| Summary of Statistics - Coal Production | 2 |
| Summary of Statistics - Employees | 2 |
| Tonnage by Coal Seams, County, and Basin | 3 |
| Production, Mining, and Reclamation Statistics by Permit | 4 |
| Summary of Land Mined, Backfilled, and Planted | 7 |
| Permitting Activity | 11 |
| Mine Foreman and Fire Boss Examinations and Certifications | 12 |
| Inspection and Enforcement Activities | 12 |
| Land Reclamation Committee Membership | 13 |
| Land Reclamation Committee Functions and Duties | 14 |
| Reclamation Results of Surface Mined Lands | 15 |
| Mining Permits Issued by Year and Permittee | 16 |

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, covering coal mine operations.

During calendar year (CY) 2024, Maryland coal mining operators produced 1.68 million tons of coal. Surface coal mining production totaled 0.63 million tons in Allegany County and 0.16 million tons in Garrett County. Deep coal mining production totaled 0.89 million tons, all in Garrett County.

The Maryland Department of Environment's Bureau of Mines received seventy applications for permits and approved sixty-five. Other actions approved included twenty-two operator's license renewals, insignificant amendments, permit transfers, and prospecting permits.

One hundred ninety-three acres were affected, one hundred three acres were backfilled, and one hundred three acres were planted.

Seven hundred thirteen inspections were conducted on coal mining operations. Three Notices of Violation were issued. Four citizen complaints were investigated, and none resulted in cessation orders. There were no permit revocations or bond forfeitures during calendar year 2024.

During CY2024, the Land Reclamation Committee met twice. The Committee evaluated the revegetation on sixty-nine acres eligible for Phase II bond release and approved sixty-nine acres as meeting the standards for release. There were two reclamation plan changes during the year.

**SUMMARY OF STATISTICS FOR THE CALENDAR YEAR 2024
REPORT OF THE MARYLAND BUREAU OF MINES**

Coal production in Maryland in calendar year (CY) 2024 totaled 1,689,655.94 tons. Production in 2024 represents an increase of 228,716.08 tons from the CY2023 production of 1,460,939.86 tons.

**SUMMARY OF CY2024
STATISTICS¹**

COAL PRODUCTION (TONS)

| Mining Method | Allegany County | Garrett County | Total |
|----------------------|------------------------|-----------------------|--------------|
| Strip | 630,882.42 | 168,691.77 | 799,574.19 |
| Deep | .00 | 890,081.75 | 890,081.75 |
| Auger | .00 | .00 | .00 |
| TOTALS | 630,882.42 | 1,058,773.52 | 1,689,655.94 |

EMPLOYEES²

| Type of Mine | Allegany County | Garrett County | Total |
|---------------------|------------------------|-----------------------|--------------|
| Deep | 0 | 124 | 124 |
| Strip | 104 | 5 | 109 |
| TOTALS | 104 | 129 | 233 |

¹Obtained from reports submitted by Maryland mining operators.

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

CY2024 TONNAGE BY COAL SEAMS

ALLEGANY COUNTY

| | |
|---------------------|-------------------|
| Waynesburg | 9,234.22 |
| Sewickley | 44,286.56 |
| Redstone | 210,617.60 |
| Pittsburgh | 269,020.01 |
| Morantown | 14,033.56 |
| L. Pittsburgh | 57,567.34 |
| Franklin | 0.00 |
| Harlem | 0.00 |
| Bakerstown | 0.00 |
| Freeport | 0.00 |
| Tyson | 18,859.64 |
| Borden | 7,263.49 |
| Barton | 0.00 |
| Washington | 0.00 |
| TOTAL | 630,882.42 |

GARRETT COUNTY

| | |
|-------------------------|---------------------|
| Sewickley | 7,812.52 |
| Pittsburgh | 78,207.85 |
| Morantown | 28,785.05 |
| L. Pittsburgh | 27,768.61 |
| Franklin | 558.07 |
| Barton | 0.00 |
| Harlem | 0.00 |
| Bakerstown | 12,399.26 |
| Freeport | 890,081.75 |
| Upper Kittanning | 0.00 |
| Middle Kittanning | 0.00 |
| Redstone | 7,481.52 |
| Tyson | 0.00 |
| Waynesburg | 5,678.89 |
| Washington | 0.00 |
| TOTAL | 1,058,773.52 |

TONNAGE BY BASIN

| | |
|------------------------------|---------------------|
| Lower Youghiogheny | 0.00 |
| Upper Youghiogheny | 0.00 |
| Casselman | 890,081.75 |
| Casselman-Cherry Creek | 0.00 |
| Potomac | 0.00 |
| George's Creek | 799,574.19 |
| TOTAL | 1,689,655.94 |

**CY2024 COAL PRODUCTION, MINING, AND RECLAMATION STATISTICS BY PERMIT
FOR ALLEGANY and 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 | Coal Seam | PRODUCTION (TONS) | | |
|-----------------------------------|---------------|-------------------------------|------------|-------------------|-----------|-------|
| | | | | Deep | Strip | Auger |
| ARJ Construction | 464 | 0.00 | Freeport | | 0.00 | |
| Beechwood Coal, LLC | 359 | 0.00 | Pittsburgh | | 0.00 | |
| | | | Morantown | | 0.00 | |
| | | | Redstone | | 0.00 | |
| C & S Coal | 456 | 3,367.48 | Pittsburgh | | 3,367.48 | |
| | | | Redstone | | 0.00 | |
| Cobra Mining | 437 | 134,473.39 | Pittsburgh | | 76,620.57 | |
| | | | Morantown | | 446.47 | |
| | | | Tyson | | 18,859.64 | |
| | | | Redstone | | 38,546.71 | |
| Heritage Coal & Natural Resources | 393 | 89,500.94 | Pittsburgh | | 46,487.98 | |
| | | | Redstone | | 36,995.42 | |
| | | | Morantown | | 6,017.54 | |
| | 439 | 138,420.37 | Borden | | 7,263.49 | |
| | | | Sewickley | | 22,365.68 | |
| | | | Pittsburgh | | 57,044.24 | |
| | | | Redstone | | 49,169.38 | |
| | | | Waynesburg | | 2,577.58 | |
| | 442 | 0.00 | Waynesburg | | 0.00 | |
| | 453 | 0.00 | Pittsburgh | | 0.00 | |
| | | | Morantown | | 0.00 | |
| | | | Redstone | | 0.00 | |
| Patriot Mining, LLC | 432 | 0.00 | Pittsburgh | | 0.00 | |

| | | | | |
|------------------------------|-----|-------------------|-------------------|-------------------|
| SIMKOL | 468 | 135,637.28 | Pittsburgh | 67,287.91 |
| | | | Redstone | 68,349.37 |
| Tri-Star Mining | 419 | 65,572.14 | Pittsburgh | 14,694.64 |
| | | | Little Pittsburgh | 0.00 |
| | | | Morantown | 4,743.26 |
| | | | Sewickley | 21,920.88 |
| | | | Redstone | 17,556.72 |
| | | | Waynesburg | 6,656.64 |
| | 436 | 63,910.82 | Franklin | 0.00 |
| | | | Little Pittsburgh | 57,567.34 |
| | | | Pittsburgh | 3,517.19 |
| | | | Morantown | 2,826.29 |
| | | | Redstone | 0.00 |
| | | | Sewickley | 0.00 |
| TOTAL ALLEGANY COUNTY | | 630,882.42 | | 630,882.42 |

GARRETT COUNTY

| Operator | Permit Number | Total Tonnage Mined by Permit | Coal Seam | PRODUCTION (TONS) | | |
|-----------------------------------|---------------|-------------------------------|-------------------|-------------------|-------------------|-------|
| | | | | Deep | Strip | Auger |
| ARJ Construction | DM111 | 0.00 | Barton | 0.00 | | |
| | 114 | 6,937.46 | Lower Bakerstown | | 6,937.46 | |
| Cobra Mining, Inc. | 446 | 64,909.32 | Morantown | | 8,064.12 | |
| | | | Little Pittsburgh | | 27,060.73 | |
| | | | Pittsburgh | | 29,784.47 | |
| | 463 | 0.00 | Lower Bakerstown | | 0.00 | |
| | 467 | 5,461.80 | Lower Bakerstown | | 5,461.80 | |
| G & S Coal Company, Inc. | 421 | 0.00 | Franklin | | 0.00 | |
| | 435 | 0.00 | Bakerstown | | 0.00 | |
| | | | Barton | | 0.00 | |
| | | | Harlem | | 0.00 | |
| Heritage Coal & Natural Resources | 454 | 0.00 | Barton | | 0.00 | |
| | | | Harlem | | 0.00 | |
| | | | Bakerstown | | 0.00 | |
| | 465 | 0.00 | Bakerstown | | 0.00 | |
| MER, LLC | DM113 | 633,707.19 | Upper Freeport | 633,707.19 | | |
| | DM115 | 256,374.56 | Upper Freeport | 256,374.56 | | |
| Pine Mountain Coal Company | 424 | 558.07 | Pittsburgh | | 0.00 | |
| | | | Morantown | | 0.00 | |
| | | | Redstone | | 0.00 | |
| | | | Franklin | | 558.07 | |
| Savage Mountain Minerals, Inc. | 448 | 0.00 | Barton | | 0.00 | |
| | | | Pittsburgh | | 0.00 | |
| | | | Franklin | | 0.00 | |
| | 461 | 0.00 | Barton | | 0.00 | |
| Tri-Star Mining, Inc. | 419 | 90,825.12 | Pittsburgh | | 48,423.38 | |
| | | | Little Pittsburgh | | 707.88 | |
| | | | Redstone | | 7,481.52 | |
| | | | Morantown | | 20,720.93 | |
| | | | Sewickley | | 7,812.52 | |
| | | | Waynesburg | | 5,678.89 | |
| TOTAL GARRETT COUNTY | | 1,058,773.52 | | 890,081.75 | 168,691.77 | |
| TOTAL BOTH COUNTIES | | 1,689,655.94 | | 890,081.75 | 799,574.19 | |

CY2024 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 |
| Beechwood Coal, LLC | 359 | 0 | 0 | 0 | 0 | 0 |
| Heritage Coal & Natural Resources | 393 | 0 | 12 | 0 | 0 | 0 |
| Tri-Star Mining, Inc. | 419 | 0 | 0 | 0 | 0 | 15 |
| Tri-Star Mining, Inc. | 436 | 0 | 11 | 5 | 5 | 0 |
| Cobra Mining | 437 | 24 | 26 | 2 | 2 | 0 |
| Heritage Coal & Natural Resources | 439 | 0 | 16 | 0 | 0 | 0 |
| Heritage Coal & Natural Resources | 442 | 0 | 0 | 0 | 0 | 0 |
| Beechwood Coal, LLC | 451 | 0 | 0 | 0 | 0 | 0 |
| Heritage Coal & Natural Resources | 453 | 0 | 0 | 0 | 0 | 0 |
| C & S Coal, LLC | 456 | 0 | 0 | 0 | 0 | 0 |
| ARJ Construction Company | 464 | 0 | 3 | 0 | 0 | 0 |
| SIMKOL | 468 | 0 | 40 | 0 | 0 | 0 |
| Heritage Coal & Natural Resources | SC-104 | 0 | 0 | 0 | 0 | 0 |
| Franklin Coal Yard | SC-116 | 0 | 0 | 0 | 0 | 0 |
| Tri-Star Mining, Inc. | SC-117 | 0 | 0 | 0 | 0 | 0 |
| Allegany County Georges Creek Basin Total | | 24 | 108 | 7 | 7 | 0 |

Garrett County

| Garrett County | | | | | | |
|--|---------------|------------------------|-----------------------|-------------------------|----------------------|-----------------------|
| Georges Creek Basin | Permit | Acres Permitted | Affected Acres | Backfilled Acres | Planted Acres | Released Acres |
| Mining Company | | | | | | |
| ARJ Construction Company | DM-111 | 0 | 0 | 0 | 0 | 0 |
| Pine Mountain Coal Company | 424 | 0 | 1 | 0 | 0 | 0 |
| Savage Mountain Minerals | 445 | 0 | 0 | 0 | 0 | 0 |
| Cobra Mining, Inc. | 446 | 21 | 0 | 0 | 0 | 0 |
| Savage Mountain Minerals | 448 | 0 | 0 | 0 | 0 | 0 |
| Savage Mountain Minerals | 461 | 0 | 0 | 0 | 0 | 0 |
| Cobra Mining, Inc. | 463 | 0 | 0 | 0 | 0 | 0 |
| JX5 Energy, LLC | 466 | 0 | 0 | 0 | 0 | 0 |
| Savage Mountain Minerals | 467 | 0 | 0 | 0 | 0 | 0 |
| Cobra Mining, Inc. | 469 | 30 | 30 | 23 | 23 | 0 |
| Georges Creek Basin Garrett County | | 51 | 84 | 57 | 57 | 0 |
| Georges Creek Basin Garrett + Allegany County | | 75 | 192 | 64 | 64 | 0 |
| | | | | | | |
| Potomac River Basin | | | | | | |
| Mining Company | Permit | Acres Permitted | Affected Acres | Backfilled Acres | Planted Acres | Released Acres |
| Mettiki Coal, LLC | DM-101 | 0 | 0 | 0 | 0 | 0 |
| Backbone Mountain, LLC | DM-112 | 0 | 0 | 23 | 23 | 0 |
| G&S Coal Company, Inc. | 421 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|--|---------------|------------------------|-----------------------|-------------------------|----------------------|-----------------------|
| G&S Coal Company, Inc. | 435 | 0 | 0 | 0 | 0 | 0 |
| G&S Coal Company, Inc. | 454 | 0 | 0 | 16 | 16 | 0 |
| G&S Coal Company, Inc. | 455 | 0 | 0 | 0 | 0 | 0 |
| Patriot Mining, LLC | 459 | 0 | 0 | 0 | 0 | 0 |
| Heritage Coal & Natural Resources | 465 | 4 | 1 | 0 | 0 | 0 |
| Deer Haven Farms, LLC | SC-121 | 0 | 0 | 0 | 0 | 12 |
| Patriot Mining, LLC | SC-122 | 0 | 0 | 0 | 0 | 0 |
| Patriot Mining, LLC | SC-123 | 0 | 0 | 0 | 0 | 0 |
| Potomac Basin Total | | 4 | 1 | 39 | 39 | 12 |
| 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 | 0 | 0 | 0 | 0 | 0 |
| Casselman Basin Total | | 0 | 0 | 0 | 0 | 0 |
| All Garrett County Basins Total | | | | | | |
| | | 55 | 85 | 96 | 12 | 0 |
| Maryland Totals | | | | | | |
| | | 79 | 193 | 103 | 103 | 12 |

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

Acres Reported in CY2024 Annual Mining and Progress Reports

| Coal Basin | Permitted | Affected | Backfilled | Planted | Released |
|-------------------------------|-----------|------------|------------|------------|-----------|
| Georges Creek Allegany County | 24 | 108 | 7 | 7 | 0 |
| Georges Creek Garrett County | 51 | 84 | 57 | 57 | 0 |
| Potomac River | 4 | 1 | 39 | 39 | 12 |
| Casselman River | 0 | 0 | 0 | 0 | 0 |
| Cherry Creek | 0 | 0 | 0 | 0 | 0 |
| Upper Youghiogeny | 0 | 0 | 0 | 0 | 0 |
| Lower Youghiogeny | 0 | 0 | 0 | 0 | 0 |
| Total | 79 | 193 | 103 | 103 | 12 |

Cumulative Acres from January 1, 1975 – December 31, 2024

| Coal Basin | Permitted | Affected | Backfilled | Planted | Released |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|
| Georges Creek Allegany County | 9666 | 8416 | 6842 | 7146 | 7163 |
| Georges Creek Garrett County | 3705 | 3266 | 3024 | 3259 | 3214 |
| Potomac River | 6241 | 5628 | 5064 | 5534 | 5505 |
| Casselman River | 1545 | 1169 | 1261 | 1142 | 1266 |
| Cherry Creek | 667 | 672 | 579 | 546 | 660 |
| Upper Youghiogeny | 230 | 157 | 215 | 189 | 262 |
| Lower Youghiogeny | 1335 | 921 | 1145 | 1088 | 885 |
| Total | 23389 | 20229 | 18130 | 18904 | 18955 |

CY2024 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permit Increments | 1 | 2 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 45 |
| Incidental Boundary Revisions | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 |
| Significant Amendments | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Insignificant Amendments | 20 | 19 | | 1 | 1 | | 0 | 0 | | 21 | 20 | |
| Transfers | 10 | 10 | | 0 | 0 | | 1 | 1 | | 11 | 11 | |
| Renewals | 4 | 4 | | 2 | 1 | | 0 | 0 | | 6 | 5 | |
| Prospecting Permits | 1 | 1 | | 0 | 0 | | 0 | 0 | | 1 | 1 | |
| Prospecting Letter of Intent | 1 | 1 | | 1 | 1 | | 0 | 0 | | 2 | 2 | |
| Operators License Original | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| Operators License Renewals | 18 | 18 | | 4 | 4 | | 0 | 0 | | 22 | 22 | |
| Totals | 61 | 57 | 45 | 8 | 6 | 0 | 1 | 1 | 0 | 70 | 65 | 45 |

MINE FOREMAN AND FIRE BOSS EXAMINATIONS AND CERTIFICATIONS

Mine Foreman and Fire Boss applicants examined and certified from CY2020 through CY2024

| YEAR | <u>APPLICANTS EXAMINED</u> | | <u>APPLICANTS CERTIFIED</u> | |
|------|----------------------------|-----------|-----------------------------|-----------|
| | Mine Foreman | Fire Boss | Mine Foreman | Fire Boss |
| 2024 | 0 | 0 | 0 | 0 |
| 2023 | 0 | 0 | 0 | 0 |
| 2022 | 0 | 0 | 0 | 0 |
| 2021 | 0 | 0 | 0 | 0 |
| 2020 | 0 | 0 | 0 | 0 |

INSPECTION AND ENFORCEMENT ACTIVITIES CY2020-2024

| TYPE OF ACTION | 2020 | 2021 | 2022 | 2023 | 2024 |
|-----------------------|------|------|------|------|------|
| Inspections | 640 | 782 | 786 | 782 | 713 |
| Notices of Violations | 1 | 6 | 2 | 5 | 3 |
| Cessation Orders | 0 | 0 | 1 | 2 | 0 |
| Citizen Complaints | 11 | 11 | 15 | 14 | 4 |
| Bond Forfeitures | 0 | 0 | 0 | 0 | 0 |

LAND RECLAMATION COMMITTEE

The following members served on the Land Reclamation Committee during CY2024:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES:

Mike Garner, Chairman, Mining Program, Abandoned Mined Lands Division

John E. Carey, Mining Program, Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

George Eberling, Forestry Division

Kenny Wampler, Freshwater Fisheries

Rande Brown, Wildlife Division

CITIZEN REPRESENTATIVES:

Bill Murphy, Garrett County

Bill Pegg, Allegany County

COUNTY REPRESENTATIVES:

Jeff Barclay, Allegany County

Ivy Opel, Garrett County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Adam Heavner, Allegany Soil Conservation District
Seth Metheny, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

Tim Schwinabart
Steve Jenkins

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 CY2024, the Land Reclamation Committee conducted site visits on two days. These visits included field reviews of 9 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 CY2024, the Land Reclamation Committee met twice. The Committee approved two reclamation plans. The Committee also evaluated 69 acres of revegetation eligible for Phase II bond release and approved 69 acres as meeting the standards for release.

Reclamation Results of Surface Mined Lands CY2024

| 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 | 30 |
| 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 ● Land Reclamation Committee has inspected and approved the revegetation on the area | 31 |
| 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 | 30 |

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 (Re- permitted 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 (Re-permitted 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. ** | |
| 40 | 2008 | Ritchie Trucking & Excavating, Inc. | (Reinstated)* |
| 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 Duppstadt)* |
| 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 Duppstadt* |
| 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 | Bittinger Coal Company* |
| 266 | 1975 | Delta Mining, Inc.* |
| 267 | 1975 | Bittinger 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.** |
| 359 | 2008 | Beechwood Coal, LLC. (Reinstated) |
| 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 (Re-permitted 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 | Heritage Coal and Natural Resources, LLC |
| 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** |
| 403 | 2003 | United Energy, Inc.** |
| 403 | 2008 | Beechwood Coal, LLC* |
| 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 | Heritage Coal and Natural Resources, LLC |
| 440 | 2001 | G&S Coal Company, Inc.* |
| 441 | 2002 | G&S Coal Company, Inc.* |
| 442 | 2002 | Heritage Coal and Natural Resources, LLC |
| 443 | 2002 | Vindex Energy Corporation* |
| 444 | 2003 | Tri Star Mining, Inc.* |
| 445 | 2004 | Savage Mountain Minerals, Inc. |
| 446 | 2004 | Cobra Mining, Inc. |
| 447 | 2005 | Beechwood Coal, LLC* |
| 448 | 2005 | Savage Mountain Minerals, Inc. |
| 449 | 2005 | Clise Coal Company* |
| 450 | 2006 | LAOC Corporation* |
| 451 | 2006 | Beechwood Coal, LLC* |
| 452 | 2006 | WPO, Inc.** |
| 453 | 2007 | Heritage Coal and Natural Resources, LLC |
| 454 | 2007 | Heritage Coal and Natural Resources, LLC |

| | | |
|-----|------|--|
| 455 | 2008 | G&S Coal Company, Inc. |
| 456 | 2009 | C&S Coal Company |
| 457 | 2011 | Beechwood Coal, LLC* |
| 458 | 2011 | LAOC Corporation* |
| 459 | 2011 | Patriot Mining, LLC |
| 460 | 2012 | LAOC Corporation* |
| 461 | 2013 | Savage Mountain Minerals |
| 462 | 2013 | Beechwood Coal, LLC* |
| 463 | 2013 | Cobra Mining, Inc. |
| 464 | 2019 | ARJ Construction Company, Inc. |
| 465 | 2021 | Heritage Coal and Natural Resources, LLC |
| 466 | 2022 | JX5 Energy, LLC |
| 467 | 2022 | Cobra Mining, Inc. |
| 468 | 2023 | SIMKOL |
| 469 | 2024 | Cobra Mining, 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 | Heritage Coal and Natural Resources, LLC |
| 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 |
| SC-21-122 | 2021 | Patriot Mining, LLC |
| SC-21-123 | 2021 | Patriot Mining, LLC |

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