

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
TOPOGRAPHIC AND GEOLOGIC SURVEY

WHITESBURG QUADRANGLE
PENNSYLVANIA-ARMSTRONG CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

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ELBERTON QUADRANGLE
PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)



EXHIBIT 19.1

INDEX MAP
EMILE Nos. 142 MINE REPERMITTING APPLICATION
ELBERTON QUAD

KEYSTONE COAL MINING CORPORATION
JUL 07 1998

CMAP: No. 03841906
PLUMCREEK TWP - Armstrong Co.
UPPER FREEPORT COAL SEM ALLEGHENY GROUP
SCALE 1" = 2000'
JUL 03 1998
DNE: JUL 17, 1984

2-10-97

Map edited, and published by the Geological Survey
Control by USGS and USCGS
Topography by photogrammetric methods from aerial
photographs taken 1962 and 1963. Field checked 1964
Polyconic projection. 1927 North American datum
10,000-foot grid based on Pennsylvania coordinate system,
south zone
1000-meter Universal Transverse Mercator grid ticks,
zone 17, shown in blue
Fine red dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. This information is unchecked
Areas covered by dashed light blue pattern are subject to controlled
mining
Map photorevised 1977
No major culture or drainage changes observed

UTM GRID AND 1973 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Revisions shown in purple compiled in cooperation with
State of Pennsylvania agencies from aerial photographs
taken 1973. This information not field checked

WHITESBURG, PA.
N4037.5-W7922.5/7.5
PHOTOINSPECTED 1977
1964
PHOTOREVISED 1973
AMS 5185 III NW-SERIES V831

Map edited, and published by the Geological Survey
Control by USGS and USCGS
Topography by photogrammetric methods from aerial
photographs taken 1963. Field checked 1964
Polyconic projection. 1927 North American datum
10,000-foot grid based on Pennsylvania coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks,
zone 17, shown in blue
Fine red dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1973 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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ELBERTON, PA.
N4037.5-W7915/7.5
PHOTOINSPECTED 1977
1964
PHOTOREVISED 1973
AMS 5185 III NE-SERIES V81