



EXPLANATION

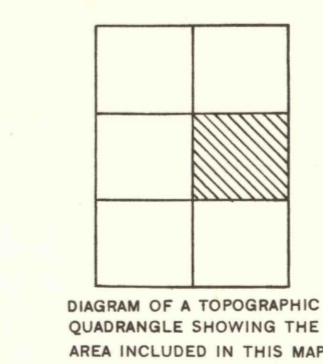
- Boundary of mine
- Warranty tract
- Barriers are indicated for general orientation and identification but are not authenticated for legal purposes.
- Barrier pillar
- Area reserved for barrier pillar in one bed only. Number designates the coal bed.
- Barrier pillar
- Area reserved for barrier pillar in more than one coal bed.
- Coal outcrop
- Solid where location is known, long dashes where uncertain. In areas covered by mine waste, short dashes indicate known locations, dots approximate locations. Number designates coal bed; L, local bed; T, top split.
- Fault showing dip and relative position of sides
- Real direction of movement not necessarily known; U, upthrown side; D, downthrown side; F, overthrust plane. Fault trace is solid line where accurately known, long dashes where approximately located. In areas covered by mine waste, short dashes indicate known locations, dots approximate locations.
- Anticline
- Showing crest line
- Syncline
- Showing trough line
- Surface opening on a coal bed
- Strip-mined area
- Back-filled striping
- Exploratory trench
- Bar shows where coal was found.
- Cop fall
- Collapsed area where coal has fallen into underground workings.
- Mine waste
- Includes such refuse from mining and breaker operations as culm, rock banks, east piles, back fill, and silt in settling basins.
- Stream-transported waste
- A-A'
- Structural cross section

Base: U. S. Geological Survey topographic map. Polyconic projection. 1927 North American datum.
Topography was contoured from aerial photographs made in 1942. Correction has generally not been made for topographic changes resulting from strip mining or alteration of mine vent banks since 1942.

APPROXIMATE MEAN DECLINATION, 1944

COAL OUTCROP MAP

SCALE 1:6,000
Contour interval is 20 feet
Datum is mean sea level



Prepared in 1950 from data supplied by the Hazle Brook Coal Company, Lehigh Valley Coal Company, Natlie Coal Corporation, Philadelphia and Reading Coal and Iron Company, and the Susquehanna Collieries Company, with modifications by the U. S. Geological Survey, Department of the Interior.

GEOLOGY OF ANTHRACITE IN THE EAST-CENTRAL PART OF THE MOUNT CARMEL QUADRANGLE, PENNSYLVANIA

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1951

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