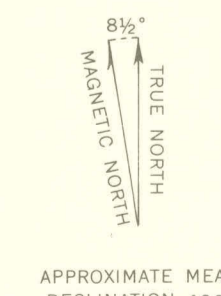




COAL OUTCROP MAP

Base map by U. S. Geological Survey and Corps of Engineers, U. S. Army. Topography from aerial photographs by stereophotogrammetric methods. Revised and field checked by U. S. Geological Survey, 1952.

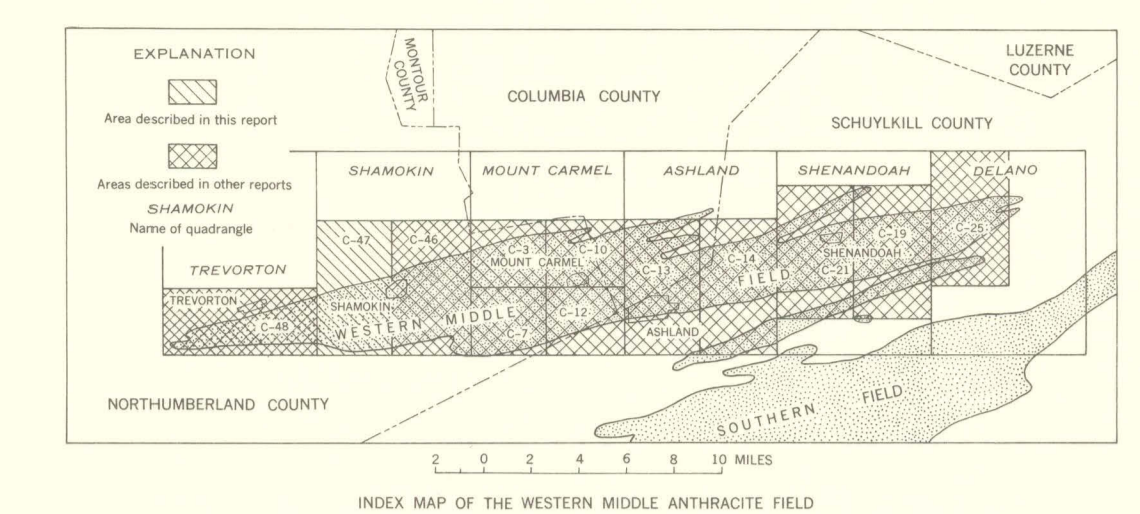
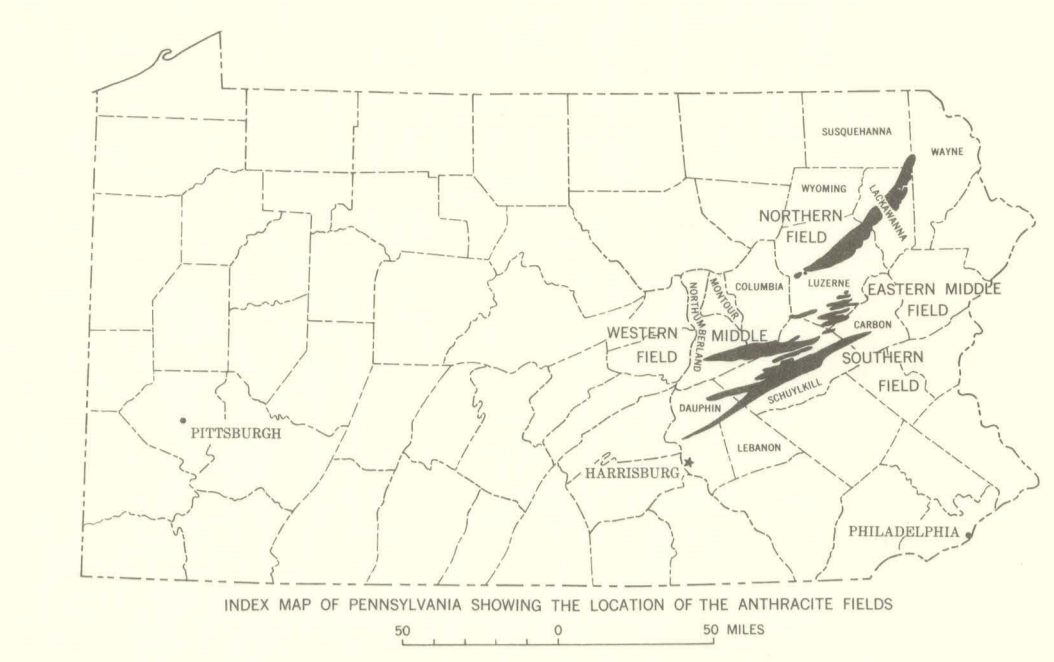
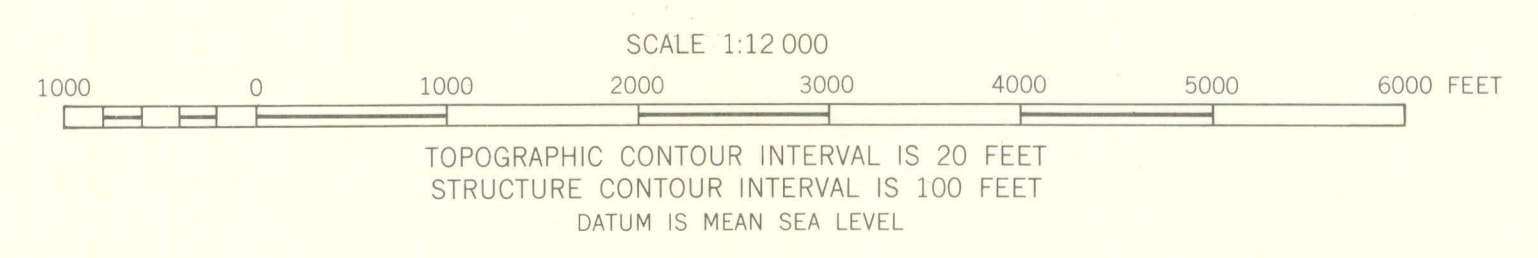


**EXPLANATION  
OUTCROP MAP**

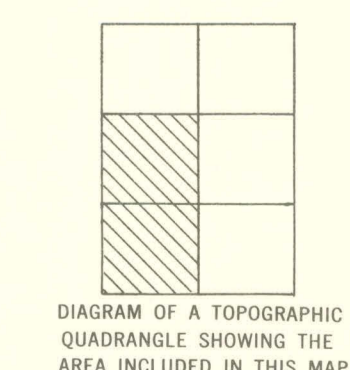
- Pottsville rocks
- Pottsville Formation
- Mauch Chunk Formation
- Contact
- Coal bed outcrop
- High-angle reverse fault, showing dip as plotted on cross section
- Tear fault, showing relative movement
- Thrust or low-angle reverse fault, showing dip as plotted on cross section
- Anticline, showing crest line
- Overturned anticline, showing crest line and direction of dip of limbs
- Syncline, showing trough line
- Overturned syncline, showing trough line and direction of dip of limbs
- Line of section
- Strip-mined area
- Surface opening on coal bed
- Portal of tunnel or shaft
- Exploratory trench
- Collapsed area where surface has fallen into underground mine workings
- Mine waste
- Boundary of mine
- Warranty tract

**EXPLANATION  
STRUCTURE MAP**

- Outcrop of Buck Mountain No. 5 coal bed
- Contours on the bottom of the Buck Mountain No. 5 coal bed
- Reverse fault cutting Buck Mountain No. 5 coal bed
- Tear fault, showing relative movement
- Shear zone
- Anticline, showing crest line
- Overturned anticline, showing crest line and direction of dip of limbs
- Syncline, showing trough line
- Line of section
- Boundary of mine
- Warranty tract



STRUCTURE CONTOUR MAP OF THE BUCK MOUNTAIN COAL BED



Prepared in 1958 from data supplied by the Reading Anthracite Co. and the Susquehanna Collieries Co. with modifications by the U. S. Geological Survey.

GEOLOGY OF ANTHRACITE IN THE WESTERN PART OF THE SHAMOKIN QUADRANGLE, NORTHUMBERLAND COUNTY, PENNSYLVANIA

By  
Harold H. Arndt, Walter Danilchik, and Gordon H. Wood, Jr.