

STRUCTURE AND ECONOMIC GEOLOGY

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

STATE OF PENNSYLVANIA
GEORGE W. MCNEES, RICHARD R. HICE, ANDREW S. MCCREATH
COMMISSIONERS

PENNSYLVANIA
BURGETTSTOWN QUADRANGLE



LEGEND

SEDIMENTARY ROCKS
(Areas of subaqueous deposits are shown by patterns of parallel lines; subaerial deposits by patterns of dots and circles)

- | | | |
|---------------------------|--|---------------|
| Recent | Qal | QUATERNARY |
| | Alluvium
(in flood plains of present streams) | |
| Pleistocene
Wisconsin? | Qlt | |
| | Lower terrace deposits
(found with clay and rounded pebbles of local derivation on low terraces) | |
| Pleistocene
Keweenaw? | Qcm | |
| | Carmichaels formation
(high terraces and with clay and deeply decayed, partly rounded pebbles of local derivation) | |
| Berwyn
Dunbar group? | Cg | CARBONIFEROUS |
| | Greene formation
(dark shale and coarse argillaceous sandstone) | |
| | Cw | |
| | Washington formation
(sandstone shale limestone and thin coals; Washington coal near middle) | |
| Pittsburgh
Carnegie? | Cm | |
| | Monongahela formation
(gray shale and limestone and some sandstone; Pittsburgh coal at top and Pittsburgh coal at base) | |
| | UNCONFORMITY? | |
| | Ccm | |
| | Conemaugh formation and Ames limestone member
(gray or greenish shale sandstone thin coals and some limestone) | |

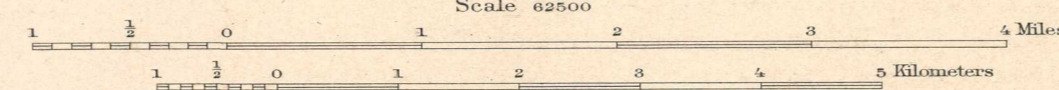
ECONOMIC AND STRUCTURE DATA

- Outcrop of workable coals
wb Washington coal
wb Weyersburg coal
wb Pittsburgh coal
- Structure contours drawn on the bottom of the Pittsburgh coal
(Contour interval is 20 feet; datum is mean sea level)

Coal mines

Note: The most valuable coal is the Pittsburgh at the base of the Monongahela formation; other coals clay and shale for brick and tile; limestone for cement materials and building stone occur throughout all the coal-bearing formations; the stream and terrace deposits yield gravel, sand and clay. Distribution of oil and gas wells and pools shown on separate map.

H.M. Wilson, Geographer.
R.D. Cummin, in charge of section.
Topography by M.J. Munn, Assistants, E.W. Mc Crary, and J.H. Wilkie.
Control by D.H. Baldwin and W.T. Griswold.
Surveyed in 1904.



Scale 1:25,000
Contour interval 20 feet.
Datum is mean sea level.
Edition of Aug. 1910.

Geology by W.T. Griswold and E.W. Shaw.
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SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

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APPROXIMATE MEAN DECLINATION 1904.