

GEOLOGIC STRUCTURE

PENNSYLVANIA
LATROBE QUADRANGLE

LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL SECTION SYMBOL

Qal

Alluvium
(in flood plains of
present streams)

Qcm

Carmichael
clay
(clay sand and boulders
on terrace and in
shaded channels of the
larger streams)

Cd

Dunkard
formation
(only the lower member,
Waynesburg sandstone,
occurs in this area)

Cm Cm

Monongahela
formation
(shale, limestone, and
occasionally coarse
sandstone; Pittsburg
coal at the bottom;
Waynesburg coal at the
top and coal beds of local
importance between)

Ccm Ccm

Conemaugh
formation
exclusive of
the Saltsburg
sandstone
(sandstone, shale, small
amount of limestone and
a few small coal beds)

Ccs

Saltsburg
sandstone
lenticular in the
Conemaugh
formation
(coarse, thick bedded or
massive sandstone in
the Conemaugh formation)

Ca Ca

Allegheny
formation
(shale, sandstone, and
clay with several work-
able coal beds; Upper
Pittsburg coal at the top)

Cpv Cpv

Pottsville
sandstone
(coarse massive sand-
stone or conglomerate
with some shale and
usually a coal bed at
the middle)

Cmc Cmc

Mauch Chunk
formation
exclusive of
the Greenbrier
limestone
(red and green shale
and thin bedded green
sandstone)

Cgr

Greenbrier
limestone
lenticular in the
Mauch Chunk
formation
(thin blue fossiliferous
limestone)

Cpo Cpo

Pocono
sandstone
(coarse sandstone grading
into very sandy limestone
at the top and usually
containing sandy shale;
underlying shale of
Devonian age shown on
the section)

1000

Contour lines drawn
upon floor of
Pittsburg coal at
base of Monongahela
formation
(contour interval is 50 feet.
Datum is mean sea level.
Where the sandstone has
been removed by erosion
the lines are determined
by the calculated position
of the bed)

1000

Contour lines drawn
upon upper surface
of Pottsville sandstone
approximately 950 feet
below the Pittsburg
coal horizon
(contour interval is 100 feet.
Datum is mean sea level.
Where the sandstone has
been removed by erosion
the lines are determined
by the calculated position
of the formation)

1000

The axes of the folds are
represented by heavy broken
lines drawn along the
lowest points of the synclines
and the highest points of the
anticlines

QUATERNARY

CARBONIFEROUS

Permian series

Pennsylvanian series

Mississippian series

Geology by Marius R. Campbell,
Assisted by George B. Richardson
and Lester H. Woolsey.
Surveyed in 1901-02 in cooperation
with the State of Pennsylvania.

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