

GEOLOGIC STRUCTURE

U. S. GEOLOGICAL SURVEY
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STATE OF PENNSYLVANIA
TOPOGRAPHIC AND GEOLOGIC SURVEY COMMISSION
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(Patton)

PENNSYLVANIA
EBENSBURG QUADRANGLE

LEGEND

SEDIMENTARY ROCKS

Recent

Qal
Alluvium
(in flood plains of
present streams)

Pennsylvanian

Cm Cm
Monongahela
formation
(shale and thin sandstone)

Cw Csh Ccm
Conemaugh
formation
with Saltsburg,
Ebensburg,
Summerhill,
and Wilcox
sandstone lentils
(principally gray sandy
shale with sandstone
beds, Csh, Ca, Csh, and
Cw respectively)

Ca Ca
Allegheny
formation
(chiefly gray and dark
clay shale with beds of
sandy gray sandstone
locally developed, and
several valuable coal
beds, upper beds port
out at the top)

Cpv Cpv
Pottsville
formation
(two beds of thick-bedded
sandstone, separated
by shale, bearing locally
a thin coal bed)

Cmc Cmc
Mauch Chunk
formation
(soft red shale in upper
part, greenish to gray
heavy-bedded sandstone
in lower part)

Mississippian

Cpo Cpo
Pocomo
formation
(principally gray sandy
shale and coarse gray
sandstone with several
bands of red clay shale)

Dck Dck
Catskill
formation
(predominantly red
shale and red sand-
stone with some bands
of gray and green shale)

Dch Dch
Chemung
formation
(gray and green shale
with sandstone layers
in lower part, dolomite
shale and sandstone
in upper part, fossiliferous
throughout)

Dn Dn
Nunda
formation
(thinly laminated, drab,
clay shale at bottom,
merging into gray sandy
shale containing thin
gray and black sand-
stone layers and a few
bands of reddish rock;
fossils rare)

Dg Dg
Genesee shale
(soft, black, clay shale
with limestone nodules;
sparingly fossiliferous)

Dh Dh
Hamilton
formation
(mostly olive and dark-
green, clay shale and
sandy shale, with a few
thin bands of gray sand-
stone; fossils abundant)

Devonian

Structure contours
(showing the elevation above sea
and the top of the Upper Freeport
coal; contour interval is 50 feet
above 2000 feet to 2500 feet
3000 feet to 3500 feet
Where the coal has been removed
by erosion, the lines are determined
by the estimated position of the beds)

QUATERNARY

CARBONIFEROUS

DEVONIAN

H.M. Wilson, Geographer in charge.
Control by S.S. Gannett and H.B. Paige.
Topography by Frank Sutton, R.D. Cummin,
T. G. Basinger, and J.S.B. Daingerfield.
Surveyed in 1901-1902.

SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

APPROXIMATE MEAN
DECLINATION 1902

Scale 62500
1 2 3 4 5 Miles
1 2 3 4 5 Kilometers

Contour interval 20 feet.
Datum is mean sea level.
Edition of Dec. 1905.

Geology by Charles Butts,
assisted by W.C. Phalen,
under the direction of Marius R. Campbell.
Surveyed in 1903.

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