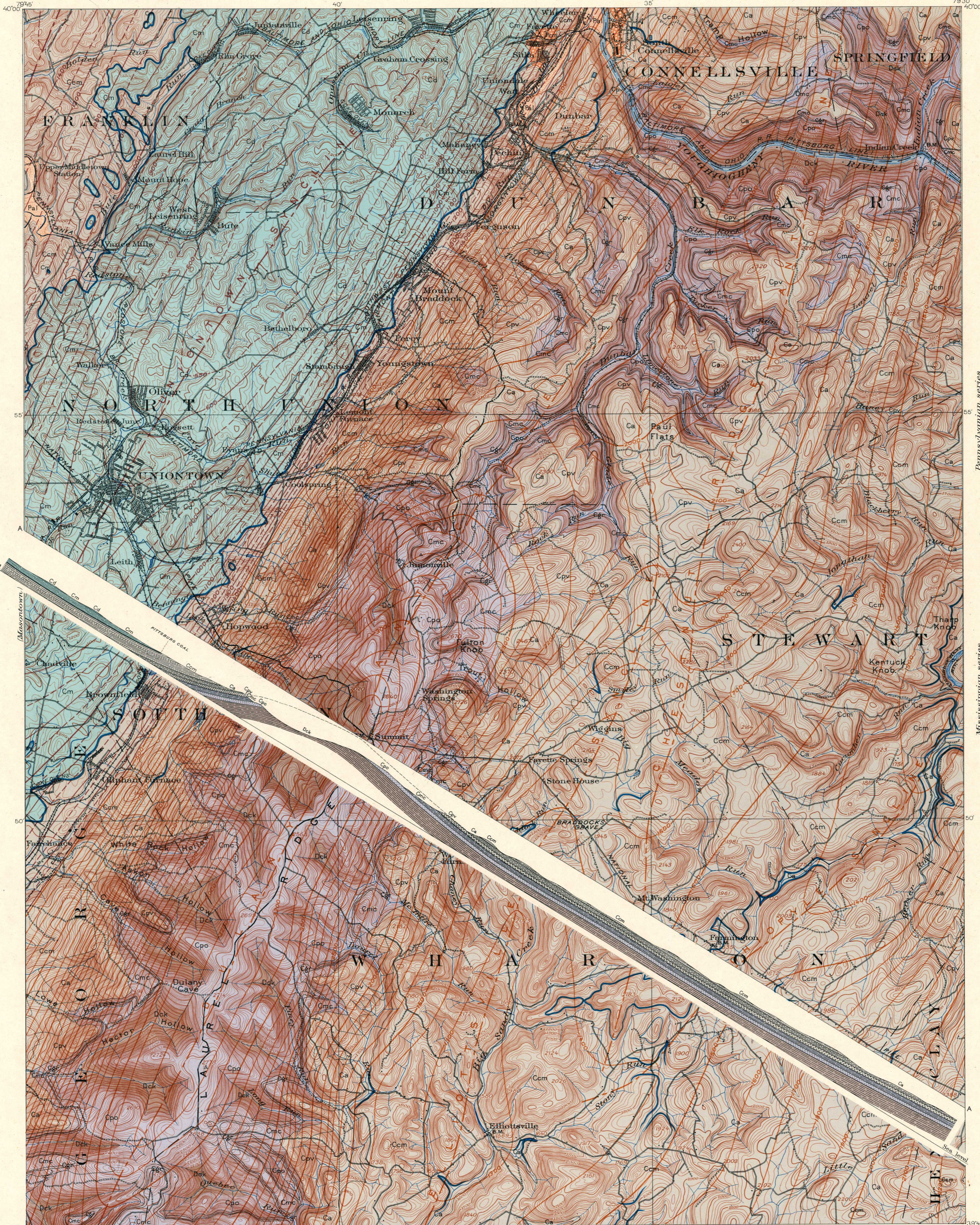


GEOLOGIC STRUCTURE SHEET



LEGEND

SURFICIAL ROCKS

SHEET SYMBOL

Pa1

Alluvium
 (in flood plains of
 present streams)

Pcm

Carmichael
 clay
 (clay sand and boulders
 on terraces and in abandoned
 channels of the
 larger streams)

SEDIMENTARY ROCKS

SHEET SECTION SYMBOL SYMBOL

Cd Cd

Dunkard
 formation
 (sandy shale and coarse
 sandstone with thin
 limestone and beds of
 coal, many of workable size)

Cm Cm

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

Ccm Ccm

Conemaugh
 formation
 (sandstone, shale, and
 limestone with a few
 small coal beds)

Ca Ca

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

Cpv Cpv

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

Cmc Cmc

Mauch Chunk
 shale
 (red and green shale
 and thin bedded green
 sandstone)

Cgr

Included in
 Mauch Chunk
 shale in
 section
 Greenbrier
 limestone lentil
 (this blue fossiliferous
 limestone in the Mauch
 Chunk shale)

Cpo Cpo

Pocono
 sandstone
 (coarse sandstone grading
 into very sandy limestone
 at the top and usually
 containing sandy shale)

Dck Dck

Catskill
 formation
 (green and red shale
 and green sandstone)

Coal beds

(outcrops of coal beds
 which are not of
 workable thickness)

Contour lines drawn
 upon the floor of the
 Pittsburg coal

(where the coal has been
 removed by erosion the
 lines are determined by
 the calculated position
 of the bed. Contour in-
 terval 50 feet. Datum is
 mean sea level.)

Contour lines drawn
 upon the upper surface
 of the Pottsville sandstone

(where the sandstone has
 been removed by erosion
 the lines are determined
 by the calculated position
 of the formation. Contour
 interval 100 feet. Datum
 is mean sea level.)

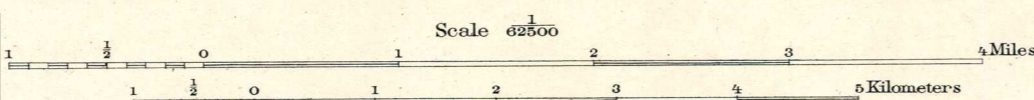
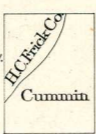
The axes of the folds are
 represented by heavy
 brown lines drawn along the
 lowest parts of the synclines
 and the highest parts of the
 anticlines.

PLEISTOCENE

CARBONIFEROUS

DEVONIAN

H. M. Wilson, Geographer in charge.
 Control by S. S. Gannett, A. C. Roberts, Sledge Tatum, and W. R. Harper.
 Topography by Frank Sutton, R. D. Cummin, and H. C. Frick. Coke Company.
 Surveyed in 1899 in cooperation with the State of Pennsylvania.



Scale 62500
 Contour interval 20 feet.
 Datum is mean sea level.
 Edition of June 1902.

Geology by Marius R. Campbell.
 Assisted by John D. Irving
 and Myron L. Fuller.
 Surveyed in 1900.