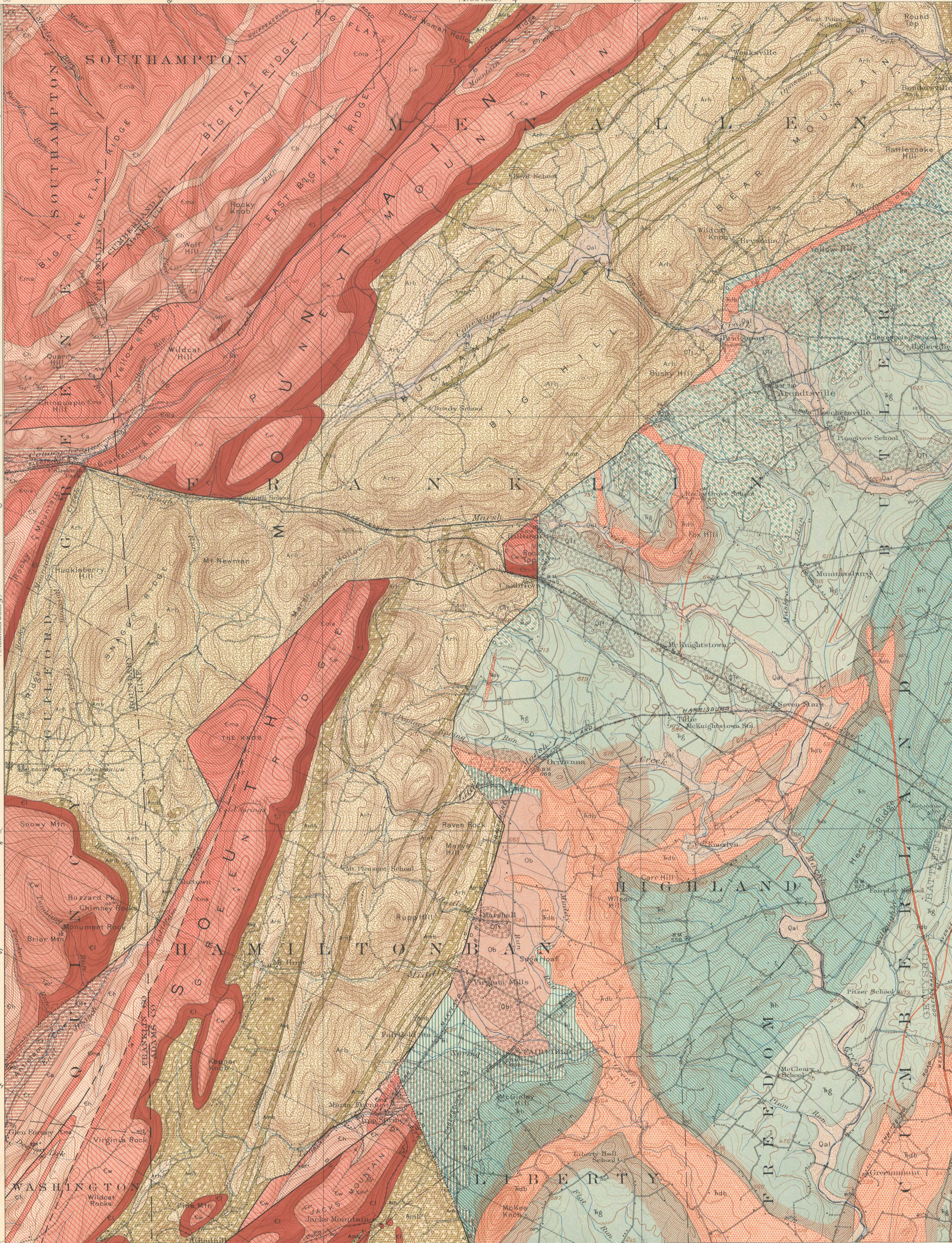


AREAL GEOLOGY

STATE OF PENNSYLVANIA
DEPARTMENT OF FORESTS AND WATERS
TOPOGRAPHIC AND GEOLOGIC SURVEY
(Newville)

PENNSYLVANIA
FAIRFIELD QUADRANGLE
(Cochran)

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



EXPLANATION

SEDIMENTARY ROCKS

(Subaqueous deposits shown by patterns of parallel lines; subaerial deposits by patterns of dots and circles)

Qal

Alluvium

(gravel and silt in stream bottoms; only larger areas mapped)

Qt

Terrace gravel and alluvial cones
(gravel, cobbles, and sand on elevated terraces and benches along the larger streams and at the mouths of steep mountain streams)

UNCONFORMITY

Ug

Gettysburg shale
(chiefly red shale and soft red sandstone; middle part, Helderberg member, Rh, contains numerous hard white sandstone beds; Arendsville conglomerate lens, unassorted fragments of quartzite and meta-schists; Rh and limestone conglomerate lens, Rh, at the top in places; shale and sandstone altered to hard dense dark-purple and black argillite, and red sandstone altered to hard white sandstone, shown by red raising)

UNCONFORMITY

Ob

Beekmantown (?) limestone
(dolomite, impure laminated blue limestone, marble, and earthy gray limestone; may include some unassorted Conococheague or Elbrook limestone of Cambrian age)

UNCONFORMITY

EW

Waynesboro formation
(gray sandstone, dolomite, limestone, and purple sandy shale)

UNCONFORMITY

Ca

Tomstown dolomite
(coarse gray dolomite, blue limestone, and shale)

UNCONFORMITY

Ca

Antietam sandstone
(white scottish-bearing sandstone and vitreous quartzite, rusty banded fossiliferous beds at top)

UNCONFORMITY

Ch

Harpers schist with Montalto quartzite member, Cma
(white quartzite containing scottish tubes interbedded with dark sandy slate and fine schist or phyllite, chiefly quartzite at north)

UNCONFORMITY

Cw

Weverton sandstone
(gray and purple feldspathic sandstone and conglomerate)

UNCONFORMITY

Cl

Loudoun formation
(soft purplish argillite sandstone and conglomerate and dark banded sericite schist)

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IGNEOUS ROCKS
(shown by patterns of triangles and rhombs)

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