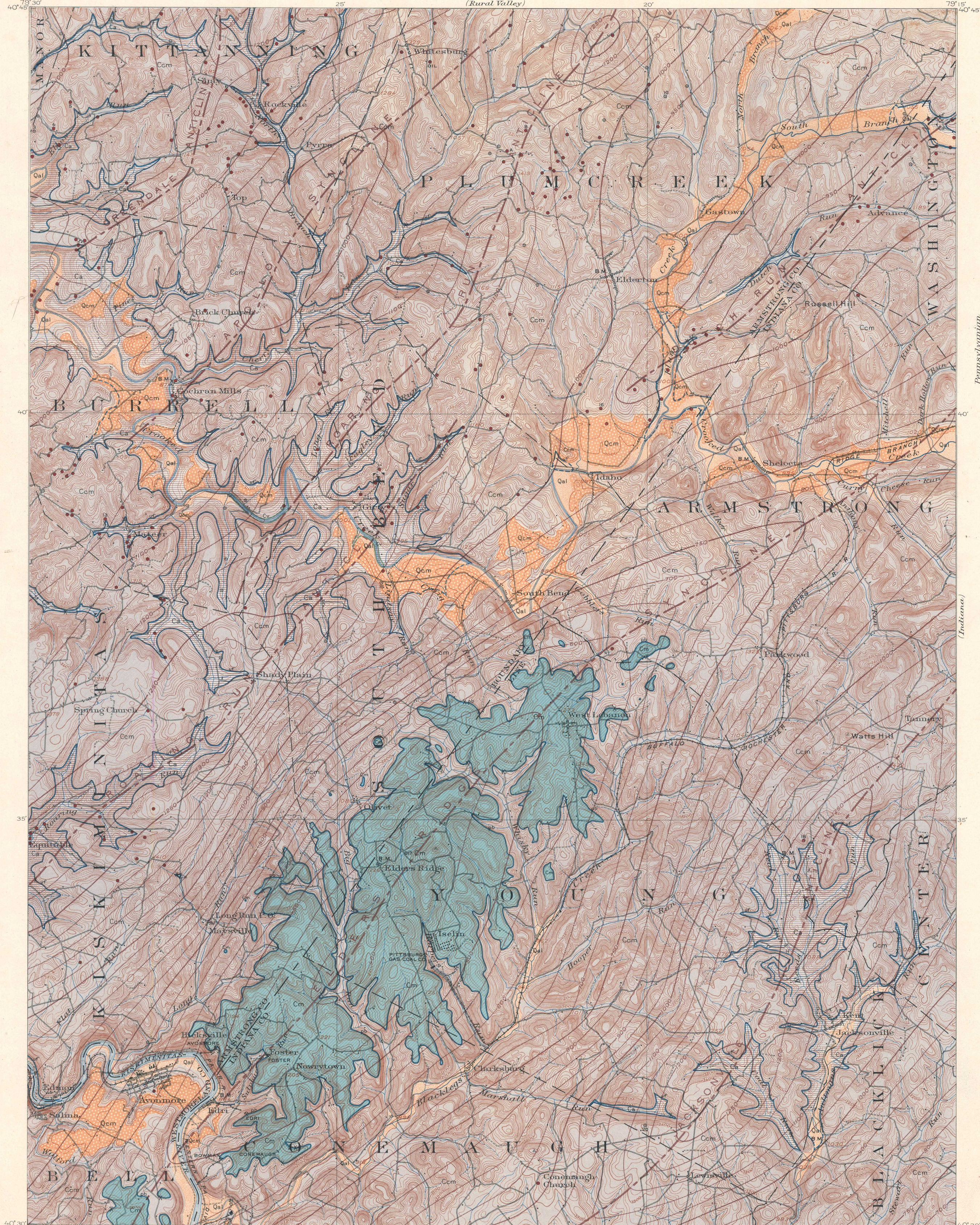




LEGEND

SEDIMENTARY ROCKS
(Areas of undulating
deposits are shown by
patterns of parallel lines,
alluvial deposits by
patterns of dots and
circles)

Qal

Alluvium
(in flood plains or
present streams)

Qcm

Carmichaels
formation
(clay sand and bowlers
on terraces)

Cm

Monongahela
formation
(shale, limestone, and
occasionally coarse
sandstone, Pittsburg
coal at the bottom)

Ccm

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

Ca

Allegheny
formation
and Vauport
limestone lentil
(shale, sandstone, thin
limestone, and clay sand-
stone, several beds of coal,
Upper Freeport coal at
the top)

Coal mines
Local coal banks
Gas wells
Deep wells, product unknown

Sections of numbered
wells are shown on
well section sheet

Known
productive
areas

Important coal
areas (underlain by
Pittsburg coal)

Coal outcrops
(Pittsburg, pb, Upper
Freeport, and Lower
Freeport, W. coals)

Structure contours
(showing the elevation
above sea level and the top
of the Upper Freeport
coal horizon)

H.M. Wilson, Geographer in charge.
Triangulation by A.H. Thompson.
Topography by Frank Sutton, E.B. Clark, and J.H. Wheat.

SURVEYED IN 1902 IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

APPROXIMATE MEAN
ELEVATION 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 Mar. 1905

Geology by Ralph W. Stone,
assisted by Lester H. Woolsey,
under the direction of M.R. Campbell.

SURVEYED IN 1902 IN COOPERATION WITH THE STATE OF PENNSYLVANIA.