



LEGEND

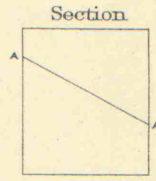
SEDIMENTARY ROCKS
(Areas of subaqueous
deposits are shown by
patterns of parallel lines,
subaerial deposits by
patterns of dots and
circles)

- Recent
- Qal Alluvium
(in flood plains of
present streams)
 - Qg Glacial gravel
(outwash gravels and sands
of glacial till; contains
tuff pebbles of Madison sand-
stone and crystalline rocks)
- Pleistocene
- Qcm Carmichaels
formation
(sand, silt, clay, and water-
worn pebbles of under-
lying rocks)
 - Qoa Older alluvium
(gravel and silt of
local derivation)

- Pennsylvanian
- Ccm Conemaugh
formation with Ames
limestone and
Salisbury sandstone
lenticles
(sandy shale and coarse
sandstones, with thin
coal seams and impure
limestones)
 - Ca Allegheny
formation and Vanport
limestone lentil
(shale and massive sand-
stones with beds of lime-
stone and several valu-
able beds of coal and fire
clay)
 - Cpv Pottsville
formation
(massive sandstone, often
shaly at the top and at
horizon of Mercer coal)
 - Cpo Pocahontas
formation
(massive sandstone, with
small coal seams and
associated shale)

- Mississippian
- Known
productive
areas
 - Coal outcrops
(continuous lines represent
coal beds of workable
thickness; dashed lines, coal
beds not known to be work-
able)
 - Upper Freeport of
Upper Kittanning, or
Middle Kittanning, or
Lower Kittanning, or
Crawford, or
Crawford, or
 - Contour lines drawn
on the upper surface of
the Vanport limestone
lentil in the Allegheny
formation
(contour interval is 50 feet;
datum is mean sea level)
 - Oil pools
(projected by the surface;
individual wells not
shown)

- * Mines and quarries
- Scattered oil wells
- Gas wells
- Sections of numbered wells are
shown on well-section sheets



H.M. Wilson, Geographer in charge,
Control by S.S. Gannett and E.L. McNair,
Topography by W.L. Miller and W. Carvel Hall.

SURVEYED IN 1900, IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

APPROXIMATE MEAN
DECLINATION 1922

Scale 62500
1 1/2 0 1 2 3 4 Miles
1 1/2 0 1 2 3 4 Kilometers

Contour interval 20 feet.
Datum is mean sea level.
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Geology by Charles Butts,
L.H. Woolsey, and Frank Leverett,
under the direction of Marius R. Campbell.

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