



LEGEND

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

- Qal
Alluvium
(in flood plains of present streams)
- Qcm
Carmichaels formation
(clay, sand, and gravel on terraces)
- Cm
Monongahela formation
(shale, limestone and occasional coarse sandstone; Pittsburg coal at the bottom)
- Ccm
Conemaugh formation
(sandstone, shale, and occasional coarse sandstone; Pittsburg coal at the bottom)
- Ca
Allegheny formation and Vauport limestone lentil
(shale, sandstone, thin limestone, fire clay, and several beds of coal; Upper Freeport coal at the top)

QUATERNARY

CARBONIFEROUS

- ✕ Coal mines
- ✕ Local coal banks
- Wells drilled for gas
- Deep wells, product unknown

Sections of numbered wells are shown on well-section sheet.

KNOWN PRODUCTIVE AREAS

- Important coal
(area underlain by Pittsburg coal)
- Coal outcrops
(Pittsburg, pb, Upper Freeport, and Lower Freeport, W. coals)
- Structure contours
(showing the elevation above sea and the lay of the Upper Freeport coal horizon)

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**ECONOMIC GEOLOGY OF ELDERS RIDGE QUADRANGLE
 PENNSYLVANIA**

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SURVEYED IN 1902 IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

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