

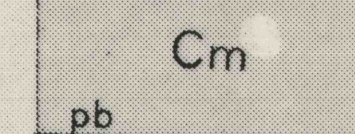
(New Florence)

(Johnstown)

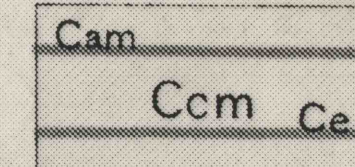


EXPLANATION
SEDIMENTARY ROCKS

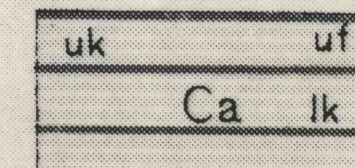
(subaqueous deposits shown by parallel lines)



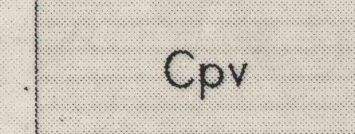
Monongahela formation
(sandy and clay shale with Pittsburgh coal at base; only the lower few feet of formation present)



Conemaugh formation with Ames and Ewing (?) limestone members
(gray shale, sandstone, and clay, including some red shale and thin beds of limestone and coal; the Ames limestone member, Cam, is mapped in the Ligonier Basin, and the Ewing (?) limestone member Ce is mapped in part of the Johnstown Basin)

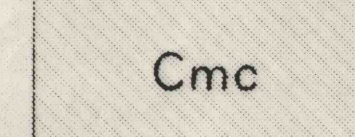


Allegheny formation
(chiefly gray and dark shale with local beds of clay and sandstone and several workable beds of coal; Upper Freeport coal at top; Johnstown limestone member directly underlies the Upper Kittanning coal)

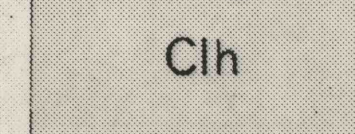


Pottsville formation
(heavy-bedded gray sandstone with interbedded shale, clay, and thin beds of coal)

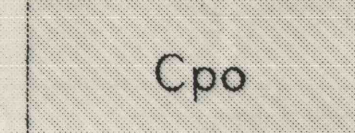
UNCONFORMITY



Mauch Chunk shale
(red and green shale with subordinate sandstone and thin lenses of limestone)

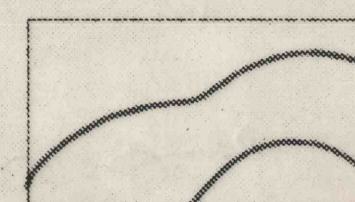


Loyalhanna limestone
(siliceous limestone)



Pocono formation
(gray sandstone and sandy shale)

ECONOMIC AND STRUCTURE DATA



Coal outcrops
pb Pittsburgh coal
uf Upper Freeport coal
uk Upper Kittanning coal and underlying Johnstown limestone member
lk Lower Kittanning coal



Structure contours drawn on horizon of Johnstown limestone member of Allegheny formation, immediately underlying the Upper Kittanning coal
(contour interval, 50 feet; datum, mean sea level)

- Coal mine shaft
- Coal mine (unless otherwise specified)
- × Country coal bank
- ss Sandstone quarry
- ls Limestone quarry (mostly abandoned)
- ⊛ Gas well
- ◇ Dry hole

LIST OF COAL MINES

Location indicated on the map by numbers

1. Saylor
2. Orinda No. 5
3. Orinda No. 4
4. Orinda No. 3
5. Consolidation No. 123
6. Balpton No. 14

CARBONIFEROUS

Pennsylvanian

Mississippian

(Winbury)

(Donegal)

504, Co. 1
Co. 1
New Mine Somerset
QUAD
Somerset Co. Pa
Saylor No. 1
170 2000
3/27/74