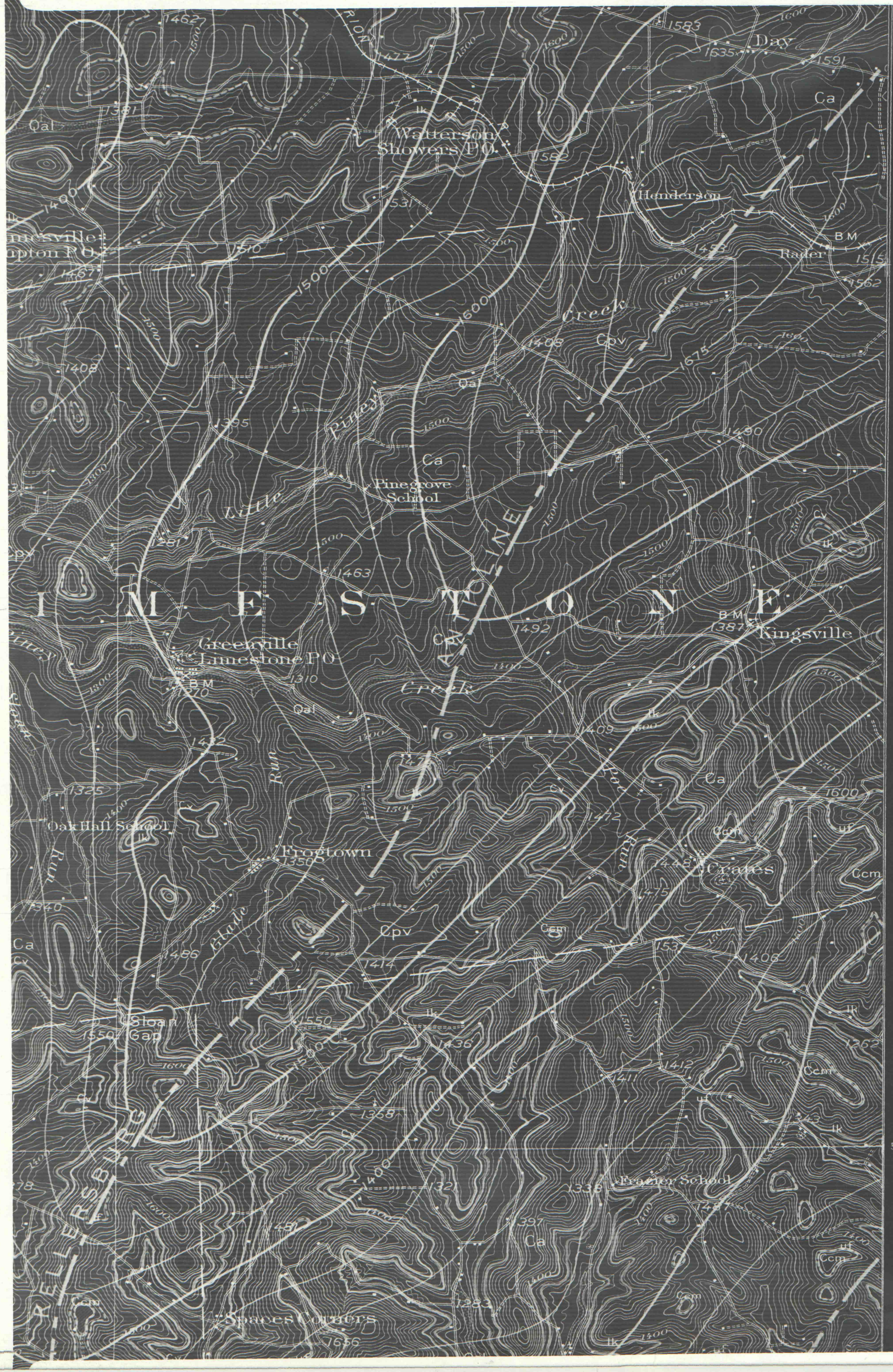
CLARION



and deeply decayed water worn pebbles of local derivation)

Carboniferous

Pennsylvanian

Ccm

Conemaugh formation

(soft olive shale, sandy shale, and locally heavy sandstone near base, with thin coals and limestones)

Ca Cv

Allegheny formation and Vanport limestone member

(iron-bearing shale, fine-grained to conglomeratic sandstone, limestone, and valuable beds of coal and clay)

Cpv

Pottsville formation

(massive sandstone with large shale lenses and thin seams of coal)

UNCONFORMITY

Mississippian (Pocono group)

Cbg

Burgoon sandstone

(massive to thin-bedded sandstone with many small lenses of shale and thin seams of coal)

ECONOMIC AND STRUCTURE DATA

Coal outcrops and area underlain by coal

(dashed lines represent coals not known to be workable)

uf, *Upper Freeport* cl, *Clarion*
lf, *Lower Freeport* cg, *Craigsville*
uk, *Upper Kittanning* br, *Brookville*
lk *Lower Kittanning*

1400

Structure contours drawn on the top of the Vanport limestone

(contour interval is 25 feet; datum is mean sea level)

⚒ *Shipping coal mines*

(unless otherwise specified)

Note: *Most of the workable coals are in the Allegheny; thin coals in Conemaugh and Pottsville; limestone and cement materials in Allegheny and Conemaugh; clay and shale for brick and tile in all Carboniferous formations; building stone in Burgoon, Pottsville, Allegheny, and Conemaugh; iron ore in Pottsville and Allegheny; glass and building sand in Pottsville and Burgoon; gravel and sand in alluvium and terrace deposits.*