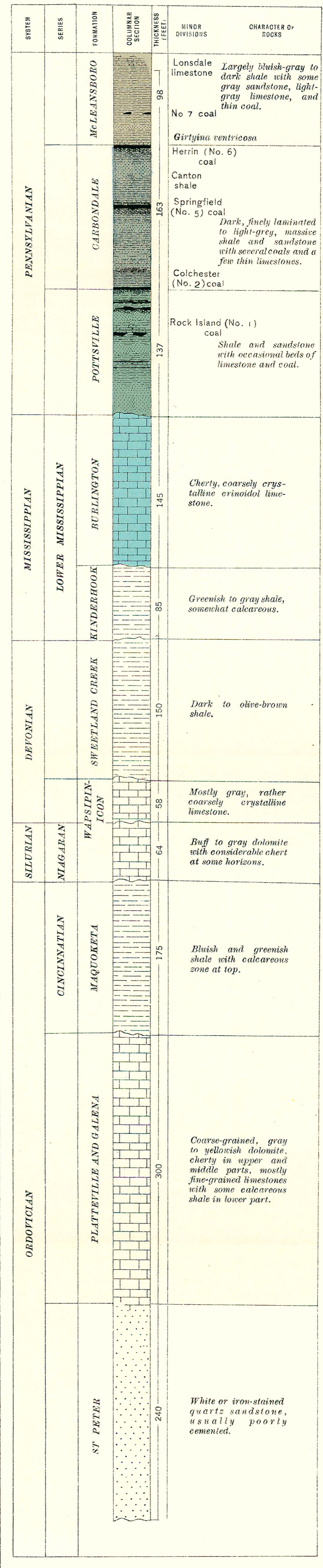




GENERALIZED SECTION
 OF THE ROCKS OF THE
 CANTON AND AVON QUADRANGLES



LEGEND
 SEDIMENTARY ROCKS

- Qal Alluvium (sandy clay, sand and gravel)
- Qd Dunes (sand blown up from exposed flood plains in dry seasons)
- Qtd Terrace Deposits (silt, sand and gravel)
- Qmd Morainal drift (Gills of gravelly and sandy clay and sandstone, with a covering of loam)
- Drit Drift (sand, sand, gravel and boulders)

UNCONFORMITY

- Cm1 McLeansboro formation (shales, sandstones, thin limestones, and coal No. 7 slightly below the middle of formation. Outcrops as mapped are locally concealed by drift.)
- Cc Carbondale formation (shales, sandstones, thin limestones, and coal No. 5 and No. 6) outcrops as mapped are locally concealed by drift.
- Cpv Pottsville formation (mainly shales with subordinate amount of sandstone. The Rock Island (No. 1) coal lies just above the middle of the formation. Outcrops as mapped are locally concealed by drift.)
- Cb Burlington limestone (mainly limestone with a few feet of chert at top)

ECONOMIC AND STRUCTURE DATA

- Workable coal (Rock Island (No. 1) coal, R₁, over the middle of the Carbondale formation; Calchester (No. 2) coal, C₂, at the base of the Carbondale formation; Pottsville (No. 5) coal, P₅, at top of Pottsville formation; generally concealed by surficial waters; extensively worked in positions shown by dot and dash lines)
- Structure contours at the base of Springfield (No. 6) coal (500)
- Structure contours at the base of Calchester (No. 2) coal (600) (dashed portion of contour indicated by dashed line. Contour interval 20 feet.)

KEY NUMBERS ETC.

- Shipping mines
- Local mines
- Water wells
- Coal test borings
- Coal test borings (showing no coal data)
- Clay plants
- Quarries

NOTE—The most valuable coals are the Springfield (No. 6) coal near the top and the Calchester (No. 2) at the base of the Carbondale formation. The Herrin (No. 6) coal at the top of the Carbondale formation and the Rock Island (No. 1) coal at the top of the Pottsville formation are of no economic value. Bricks and tiles are being made from Carboniferous shales and Pottsville clays, gas is derived from the glacial drift, and for building purposes the Pottsville sandstone, sandstone, gravel along streams to utilize, a quarry is being worked in the Lonsdale limestone of the McLeansboro formation, sandstone is quarried from the Pottsville formation and water comes from beds in the drift and in the Carbonate and McLeansboro formations.