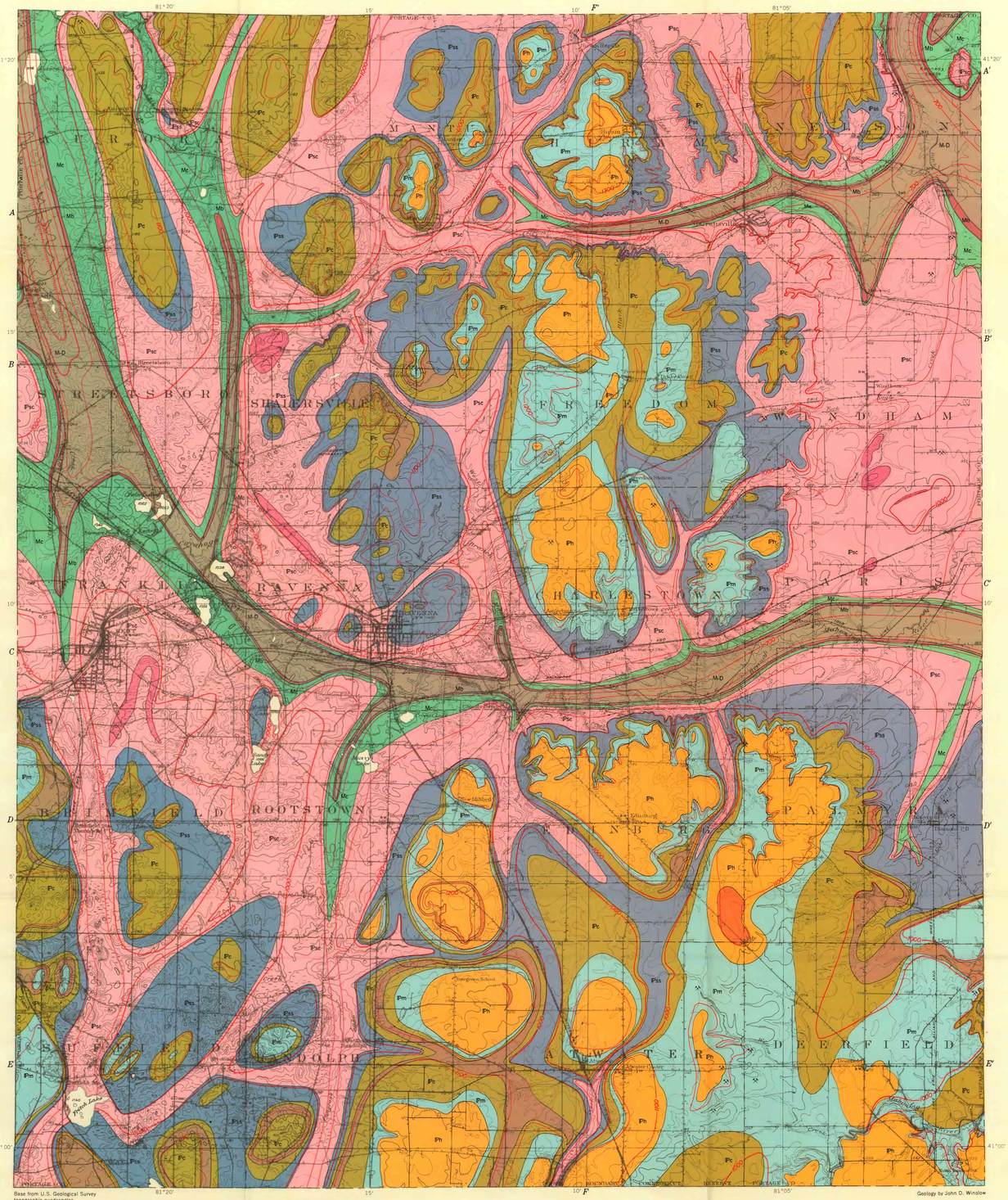
PREPARED IN COOPERATION WITH
THE OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER



Base from U.S. Geological Survey topographic quadrangles

Geology by John D. Winslow

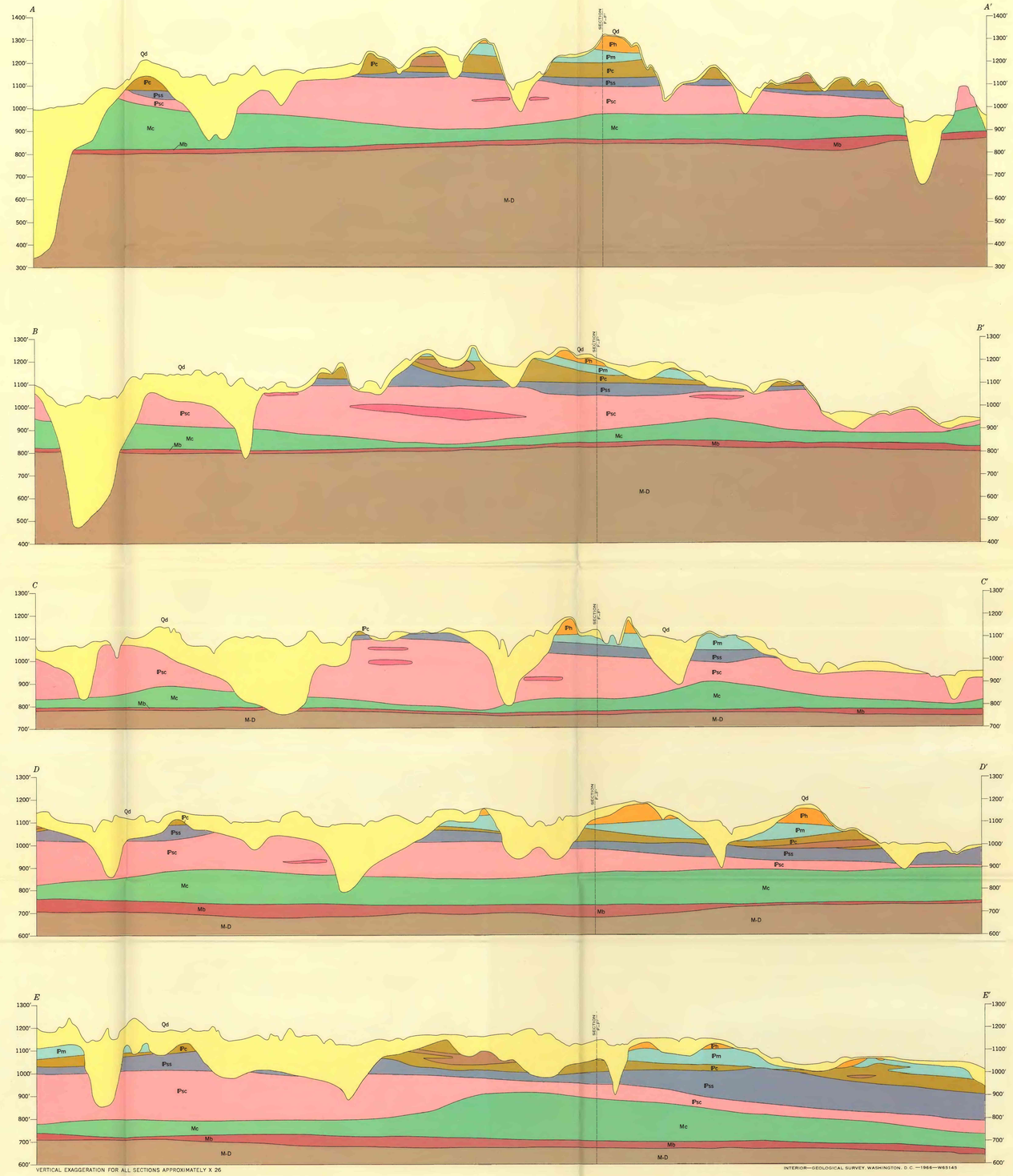
SCALE 1:62 500

1 ½ 0 1 2 3 4 5 MILES

1 .5 0 1 2 3 4 5 KILOMETERS

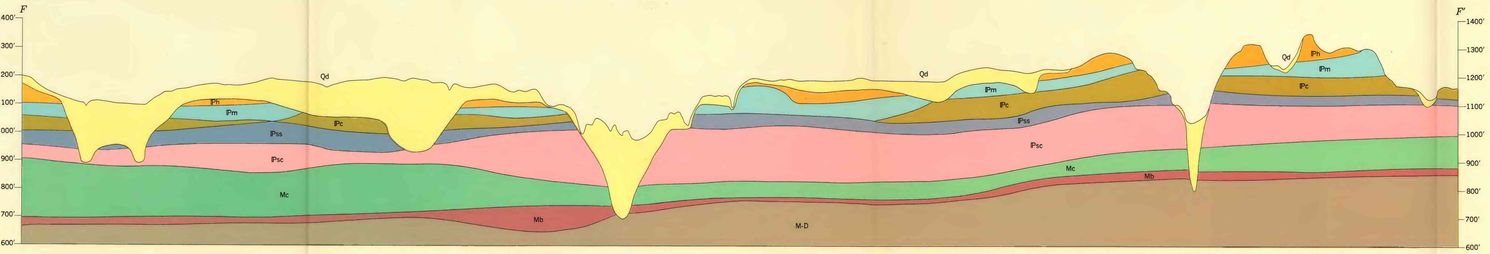
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1966



VERTICAL EXAGGERATION FOR ALL SECTIONS APPROXIMATELY X 26

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1966—W63145



INDEX MAP OF OHIO

E X P L A N A T I O N

Qd — Undifferentiated
Glacial, fluvial, and lacustrine deposits consisting of till, gravel, sand, silt, and clay; shown in sections only
(Pleistocene and Recent; QUATERNARY)

Ph — Homewood Sandstone Member
Coarse- to fine-grained clay-bonded micaceous sandstone; includes a few thin shale lenses, indicated by darker shade of color

Pm — Mercer Member
Gray to black sandy to silty micaceous shale; includes thin sandstone, coal, underclay, limestone, and siderite zones

Pc — Connoquenessing Sandstone Member
Coarse- to fine-grained sandstone and silty to sandy shale. Both units are micaceous and contain numerous plant fragments. Shale units indicated by darker shade of color

Pss — Sharon Member, shale unit
Gray to black sandy to micaceous shale containing thin coal, underclay, sandstone, and siderite zones

Psc — Sharon Member, conglomerate unit
Coarse- to fine-grained sandstone, locally conglomeratic. Includes a few thin shale lenses, indicated by darker shade of color

(Pottsville Formation; PENNSYLVANIAN; CARBONIFEROUS)

Mc — Cuyahoga Group
Medium- to dark-gray arenaceous shale with thinly bedded sandstone and zones of siderite concretions. Includes the Orangeville, Sharpsville, and Meadville Formations

Mb — Berea Sandstone
Massive, moderately hard, medium- to fine-grained sandstone

M-D — Pre-Berea rocks
Undifferentiated sandstone and shale formations; includes the Chagrin, Ohio (Cleveland Member), Cussewago, and Bedford Formations

(Mc, Mb: MISSISSIPPIAN; CARBONIFEROUS. M-D: DEVONIAN AND MISSISSIPPIAN)

Contact

Quarry or mine

1100
1000

Approximate structure contours
Drawn on bedrock surface. Contour interval 100 feet; datum is mean sea level

BEDROCK GEOLOGIC MAP AND SECTIONS OF PORTAGE COUNTY, OHIO