
Geology of the Vermilion West and Berlin Heights Quadrangles, Erie and Huron Counties, Ohio. *Charles E. Herdendorf.* Report of Investigations No. 60, Ohio Geological Survey, 1207 Grandview Ave., Columbus, Ohio 43212, 1966. Folded, colored map, scale 1:24,000, with text on sheet. \$1.13.

The quadrangles of this report are in north-central Ohio bordering Lake Erie. The bedrock formations and recent alluvium are mapped in color and Pleistocene beach deposits are shown by symbols in black. Nearly all unconsolidated material overlying the bedrock in this area is glacial in origin, deposited either directly by the Wisconsin ice sheet or in glacial lakes that were predecessors of Lake Erie. The bedrock below the glacial deposits consists of Ohio Shale (Upper Devonian), Bedford Shale (Lower Mississippian) above it, and, lying unconformably above the Bedford, the Berea Sandstone (Lower Mississippian).

The most important mineral resource is the Berea Sandstone, which is at present quarried in two locations for dimension and crushed stone. Small amounts of gas have been produced from the Ohio Shale. Beach ridges, bars, and dunes associated with glacial lakes are sources of well-sorted sand and gravel. The Berea Sandstone, where buried, is the best source of ground water.