

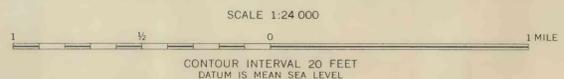


EXPLANATION

- Qal
Alluvium
 - Pb
Breathitt formation
c. calcareous sandstone concretion zone
 - Plsh
Lee formation
Plsh, sandstone facies.
Plsh, shale facies.
cb, Olive Hill clay bed of Crider (1913)
 - Mu
Upper Mississippian rocks, undivided
Includes equivalents of Warsaw (?), St. Louis, St. Genevieve, Pook of Elrod (1899), Beaver Bend of Malott (1919), Reelsville of Malott (1919), Goleonda, Glen Dean, and Pennington (?) formations
 - Mm
Muldraugh formation
Red and green shale, locally contains thin beds of green siltstone
 - Mb
Brodhead formation
Uppermost 1 to 2 feet includes Floyds Knob formation of Stockdale (1939)
- Contact
Dashed where approximately located
- Structure contour
Drawn on base of Olive Hill clay bed of Crider (1913). Long dash where inferred, short dash where above present land surface; contour interval 10 feet
- Strip mine in Olive Hill clay bed of Crider (1913)
- Adit of underground clay mine
- Limestone quarry
- Dry hole
Selected holes are referred to in text by numbers 1 to 5
- 8
Location referred to in text where clay was measured and sampled

QUATERNARY
PENNSYLVANIAN
MISSISSIPPIAN
CARBONIFEROUS

GEOLOGIC MAP OF THE HALDEAMAN QUADRANGLE, CARTER
ROWAN, AND ELLIOTT COUNTIES, KENTUCKY



Base from U. S. Geological Survey Haldeman, Kentucky, topographic quadrangle, 1953

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—10469
Geology by Sam H. Patterson and John W. Hosterman, 1955-56

