KENTUCKY GEOLOGICAL SURVEY
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MAP AND CHART 26
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SYSTEM
SERIES
GROUP
FORMATION, MEMBER, ZONE, AND BED
LITHOLOGY
THICKNESS IN METERS (FEET)
QUATERNARY
Holocene and Pleistocene
Modern Deposits
Older Alluvial Deposits
Alluvial deposits
Eolian deposits
Colluvial and Landslide Deposits
Wisconsinan loessdrine deposits
Wisconsinan glacial outwash deposits
Pleistocene
Illinoian glacial till
GLACIAL DRIFT (Illinoian)—Boulders, sand, silt, clay, and gravel. Till deposits, exposed in Grant County, are gray clayey diamicton that contains abundant limestone and shale fragments, other mineral clasts from outside the region are common, and local, mostly fossiliferous, limestone boulders are present. Outwash deposits are stratified sand to boulder gravel, commonly mixed with sandstone, siltstone, dolomite, chert, igneous and metamorphic rock components cemented by calcite. Deposits are commonly oxidized and leached to a yellowish brown color. Outwash, undifferentiated, is generally overlying till, massive to poorly bedded with well-rounded pebbles and cobbles, minimal silt and clay particles. Deposits are exposed in the valley of Eagle Creek, Bowen Creek, and Augusta, Ky., resting on Ordovician carbonate bedrock.
Pleistocene and Holocene
Modern Deposits
Older Alluvial Deposits
Alluvial deposits
Eolian deposits
Colluvial and Landslide Deposits
Wisconsinan loessdrine deposits
Wisconsinan glacial outwash deposits
Pleistocene
Illinoian glacial till
High level terrace deposits
Illinoian
Pleistocene
Pliocene
Pliocene Formation
Middle Pennsylvanian
Breathitt Group
Middle part of Breathitt Group
Upper part of Breathitt Group
Lower Pennsylvanian
Lower part of Breathitt Group
Slade Formation
Upper Mississippian
Borden Member of Formation
Borden Formation
siltstone member
Cowbell Member
Nancy Member
lower member
Farmers Member
Hartley bed
Lower Mississippian
Sunbury Shale
Berea Sandstone and Bedford Shale, undifferentiated
Berea Sandstone
Bedford Shale
Upper Devonian
Lower and Middle Devonian, undifferentiated
Ohio Shale
Devonian
Bisher Limestone
Middle Devonian
Lower Devonian
Silurian
Estill Shale
Drowning Creek Formation
Upper Ordovician
Preachersville Member of Drowning Creek Formation
Bull Fork Formation
Upper Ordovician
Lower Member
Fairview Formation
Upper Ordovician
Kope Formation
Upper Ordovician
Clays Ferry Formation and Calloway Creek Limestone
Upper Ordovician
Tangipahoa Member of Lexington Limestone
Middle Ordovician
Qal
Qbo
Qe
Qc
Qwo
Qwg
Qi
QTg
Qt
Qgl
Qgo
Qgt
Qgd
Qgs
Qgb
Qgp
Qgw
Qgm
Qgc
Qgk
Qgg
Qgf
Qgh
Qgn
Qgu
Qgv
Qgi
Qgr