

SEDIMENTARY ROCKS



Silt and gravel
Recent flood-plain, riverbed, and lake deposits



Silt and sand
Glaciofluvial and alluvial deposits in large part reworked by wind



Silt and gravel
Glacial and glaciofluvial deposits resulting from valley glaciers



Tiglukpuk formation
Sandstone, graywacke type; shale, chert, siltstone, and conglomerate

UNCONFORMITY(?)



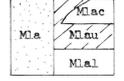
Shublik formation
Dark shale, limestone, and chert

DISCONFORMITY



Siksikpuk formation
Shale and siltstone, with chert

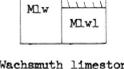
UNCONFORMITY



Alapah limestone

Mla, Alapah limestone; thickness in northern belt of outcrop 1,400 to more than 2,300 feet.
Mlu, Alapah limestone (upper part); light-gray colored, coarse-grained limestone, locally silicified, locally replaced by dolomite; some shaly limestone, black chert, lithographic limestone. Lithostrotionoid corals and gigantoproductid brachiopods of Late Mississippian age.
Mlc, Alapah limestone (chert-shale member); black chert; shale; dark-gray, shaly limestone, locally phosphatic. Brachiopods and goniatites of Late Mississippian age.
Mll, Alapah limestone (lower part); dark-gray, predominantly fine-grained, partly shaly limestone, with black, nodular chert

DISCONFORMITY(?)



Wachsmuth limestone

Mlv, Wachsmuth limestone; thickness in northern belt of outcrop 470 to more than 900 feet.
Mlu, Wachsmuth limestone (upper part); medium-gray, fine-grained limestone, with nodular and bedded gray-black chert. Brachiopods of Early Mississippian age.
Mlv, Wachsmuth limestone (lower part); coarse-grained, locally dolomitic; dark-gray shaly limestone; black shale. Brachiopods and corals of Early Mississippian age



Kayak shale

Black shale, quartzose sandstone at base; ferruginous limestone at top of section. Maximum complete measured section 1,140 feet, minimum complete measured section 850 feet. Corals, bryozoans, and brachiopods of Early Mississippian age



Kanayut conglomerate

Massive quartz-chert conglomerate, sandstone and quartzite, gray to gray-green. Thickness east of Amithoyuk Lake, 4,500 feet



Sandstone, siltstone and shale

Gray-green sandstone, pink to brown weathering, thin-bedded, partly calcareous, partly schistose, locally crossbedded; green, fine-grained, massive calcareous sandstone; siltstone and shale. Minor amounts of slate-pebble conglomerate. Grades laterally into Ds, grades(?) vertically into Mk



Quaternary deposits, undifferentiated
Include alluvial, glacial, and glaciofluvial deposits where not separately distinguished; colluvium where bedrock cannot be inferred



Cretaceous and Jurassic rocks, undifferentiated
Tiglukpuk formation and Cretaceous rocks, predominantly graywacke, sandstone, shale, siltstone; local basal conglomerate



Cretaceous, Jurassic, Triassic, and Permian rocks, undifferentiated



Shublik and Siksikpuk formations, undifferentiated



Lisburne group

Thickness of section in northern belt of outcrop approximately 3,200 to 2,200 feet. In southern belt of outcrop 330 to 200 feet

Upper Mississippian
Lisburne group
Lower Mississippian
Upper Devonian
Middle Devonian(?)

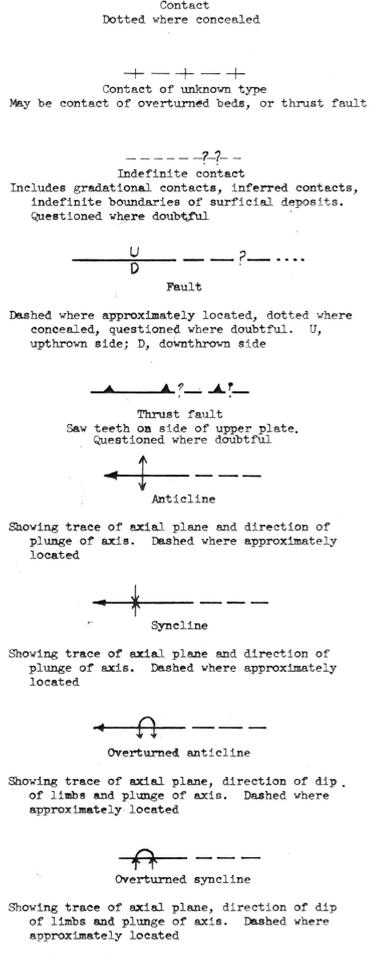
QUATERNARY
CRETACEOUS AND JURASSIC
JURASSIC
TRIASSIC
PERMIAN

MISSISSIPPIAN
DEVONIAN

IGNEOUS ROCKS



Mafic intrusive rocks



This map is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards and nomenclature.