

GEOLOGIC RECONNAISSANCE MAP OF NORTHWESTERN ALASKA

Scale 1:500,000
0 10 20 30 Miles

Contour interval 500 feet
except in coastal region between Cape Beaufort and Simpson
Broken lines indicate probable topography of unsurveyed areas
Dashed lines mean sea level

1930

Prepared by Alaska Branch principally from recent
surveys by the U. S. Geological Survey in cooperation
with the Bureau of Engineering, Department of the Navy,
1923-1925.
Geology by Philip S. Smith and J. B. Martin, Jr.,
supplemented by unpublished material by W. T. Foss
and W. R. Smith and published material from all available
sources, principally U. S. Geological Survey expeditions.
Topography of recent surveys by Gerald Fitzgerald,
E. C. Quinn, R. K. Lynt, and O. Lee Wix.

- EXPLANATION**
- SEDIMENTARY ROCKS**
- Quaternary: Sand, gravel, and mud (Of marine, fluvial, glacial, and lacustrine origin. Probably unconformable)
 - Tertiary: Sandstone, shale, and conglomerate (In places containing thin and thin. Marine near coast; terrigenous in inland valleys)
 - Cretaceous: Sandstone and shale with numerous thick beds of coal (Marine in upper and lower parts and terrigenous in central part. Highly deformed near coast. Includes Devonian of Labrador region, which may be of Jurassic age)
 - Tertiary: Sandstone and shale with some heavy beds of conglomerate near base (Dominantly of marine origin; highly deformed)
 - Tertiary: Chert, limestone, and shale of marine origin (Mainly chert and shale. Upper Tertiary zone)
 - Carboniferous: Labyrinthine limestone (Superposition and recrystallized limestone of marine origin; upper Mississippian zone)
 - Devonian: Nostok sandstone (Sandstone and shale with fine sand and beds. Both marine and terrigenous deposits represented; Mississippian zone)
 - Devonian: Sandstone and shale (Upper Devonian zone; but probably includes rocks of Middle Devonian age)
 - Undifferentiated Silurian (?) limestone
 - Undifferentiated Silurian (?) rocks (Mostly argillaceous and argillaceous color; intensely deformed and metamorphosed)
 - Shale limestone (Presumably metamorphosed limestone and shale)
 - Highly metamorphosed limestone (Metamorphosed, stratigraphic position within associated group undetermined but probably not of same age)
 - Highly metamorphosed rocks (Rocks of same indistinguishability of radiometric origin but includes areas highly altered rocks, probably igneous)
- IGNEOUS ROCKS**
- Lava and pyroclastic rocks
 - Granitic intrusive rocks
 - Basic effusive and intrusive rocks
 - Greenstone and greenstone schist
- FAULT**

