DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

GEOLOGIC MAP OF YUKON-TANANA REGION ALASKA

by

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From original surveys 1916 to 1931, and from compilation of earlier surveys by other members of the U. S. Geological Survey

Scale 1/500,000

10 0 10 20 30 Miles

10 0 10 20 30 Kilometers

Contour interval 400 feet
Datum is mean sea level

Recent determinations by Alaska International Boundary Commission and U. S. Coast and Geodetic Survey indicate that elevations are from 75 feet too high in the western portion to 275 feet too low in the eastern portion of the map.

Topography by Alaskan Branch
Compiled by R. H. Sargent, Topographic Engineer
principally from surveys, 1898 to 1908 and 1933, by U. S. Geological Survey
Geodetic position based upon data by U. S. Coast and Geodetic Survey and Alaska International Boundary Commission
Areas not surveyed in detail indicated by broken lines
Land net from data by General Land Office

1937

EXPLANATION

CHIEFLY BEDDED ROCKS

QUATERNARY
- Pleistocene — Qm: Glacial deposits
- Pliocene, Pleistocene, and Recent — Qal: Alluvial deposits

TERTIARY
- Chiefly early Tertiary — Tsc: Sandstone, shale, and conglomerate

CRETACEOUS
- Lower and Upper Cretaceous — Ks: Quartzitic sandstone, slate, and shale (Includes Kandik formation, Lower Cretaceous, in northeastern part of area)

UNCONFORMITY

TRIASSIC
- Upper Triassic — Ʀ: Shale and thin-bedded (?) limestone

CARBONIFEROUS
- Permian — Ct: Tahkandit limestone
- Pennsylvanian (?) — Cnr: Nation River formation
- Mississippian — Ccb: Calico Bluff formation (Upper Mississippian)
- Crv: Rampart group and associated intrusives (As mapped includes the probably contemporaneous Circle volcanics)
- Cml: Limestone
- Cm: Noncalcareous rocks (Includes Wellesley formation and other sedimentary rocks)
- Clg: Livengood chert and associated intrusive rocks

DEVONIAN (MAY INCLUDE SOME SILURIAN)
- Middle Devonian — Dwv: Woodchopper volcanics
- Chiefly Middle Devonian — Dl: Limestone (Includes Salmontrout limestone and other limestones)
- Dnc: Undifferentiated rocks (Mainly non-calcareous)

SILURIAN
- St: Tolovana limestone (Niagaran fossils)

ORDOVICIAN
- Middle Ordovician — Ov: Fossil Creek volcanics

PRE-CAMBRIAN AND LOWER CAMBRIAN (?)
- tn, tnl: Tindir group and associated intrusive rocks (Limestones of Tindir group, Tnl)

PRE-MIDDLE ORDOVICIAN
- pO, pOl: Undifferentiated pre-Middle Ordovician rocks (Limestones, pOl)

PRE-CAMBRIAN
- p€: Birch Creek schist and associated meta-igneous rocks including the Pelly gneiss

IGNEOUS ROCKS

(Part of the igneous rocks have been mapped with the bedded formations with which they are closely associated)

- LATE TERTIARY AND QUATERNARY — TQv: Undifferentiated lavas
- MIDDLE TERTIARY — Tqm: Quartz monzonite
- EARLY TERTIARY — Tev: Rhyolite and dacite
- MESOZOIC — grd: Granite and quartz diorite
- CHIEFLY DEVONIAN — Dbi: Ultrabasic and basic intrusives of greenstone habit

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