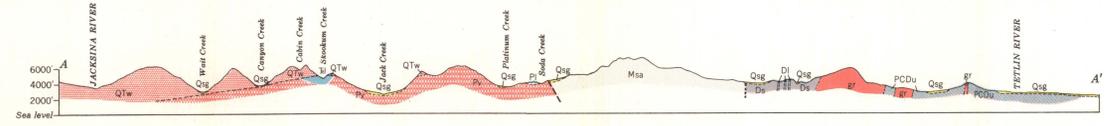


- SEDIMENTARY ROCKS**
- Quaternary**
    - Qsg Sand, gravel, and silt; unconsolidated materials including older stream and lake deposits, alluvium of the present stream, glacial terraces, and outwash gravel
    - Tn Nenana gravel. The deposits are poorly stratified, deeply weathered, and contain pieces of lignitized wood
  - Tertiary**
    - Kcs Conglomerate, greenish-gray sandstone with shaly partings and plant remains, tuffaceous sandstone, and sandy shales
    - Jc Conglomerate and sandy shales
    - Ti Massive and thin-bedded limestone; includes Nabesna limestone in White Mountain area
    - TPu Undifferentiated Upper Triassic and Permian limestone
    - Pl Limestone, crystalline in most places
    - Ps Shale, argillite, and arkose; undiff. Permian and Mesozoic (?) rocks with flows or intrusives, distinctly showing banding or varves in many fine-textured, darker strata. Permian rocks are at the head of Fork Snag River
    - PDI Undifferentiated Permian and Devonian limestone
    - Di Limestone
    - Ds Slate, quartzite, and conglomerate; locally schistose
  - Triassic**
    - Msa Banded shale and argillite, arkose conglomerate, and limestone, of Late Triassic and Early Cretaceous age; shale of Late Triassic age
  - Permian**
    - MPu Shale, argillite, and arkose; undiff. Permian and Mesozoic (?) rocks with flows or intrusives, distinctly showing banding or varves in many fine-textured, darker strata. Permian rocks are at the head of Fork Snag River
  - Devonian**
    - PDU Undifferentiated Paleozoic rocks, of Permian and Middle Devonian slate and conglomerate, including volcanic and intrusives; somewhat phosporous but only locally schistose; Carboniferous rocks
    - US Undifferentiated early Paleozoic pre-Cambrian limestone
    - SB Schist and phyllite with granular derived in part from sedimentary
- PREDOMINANTLY IGNEOUS ROCKS**
- QTW Basaltic and andesitic lava flows, tuffs, and agglomerates of Tertiary to Recent age; some of the fragmental materials were deposited in water and are well rounded
  - Gf Granitic intrusives. Light to dark-colored, coarse-grained diorite, quartz diorite, and related intrusives; markedly porphyritic in places and showing large feldspar phenocrysts, predominantly of late Mesozoic age
  - U Undifferentiated igneous rocks of late Paleozoic and Mesozoic age; dark-gray diorite, basic intrusives, lavas, and tuffs, metamorphosed in places; locally may include in folded or faulted sediments
  - Pv Amygdaloidal basalts, tuffs, and intrusives of Permian age or older; may include some Permian shale or folded Mesozoic rocks
  - PDU Mainly Permian basaltic rocks, tuffs, and agglomerates; includes some Devonian shale and limestone and possibly some Mesozoic deposits
  - G Gabbro. Age undetermined
- MINES AND PROSPECTS**
- Copper
  - ⋈ Gold lode
  - ⋈ Gold placer
  - Molybdenum
  - ⋈ Prospect—gold, silver, lead, zinc
- CONTACTS AND FAULTS**
- - - - - Contact, approximately located
  - ..... Fault, approximately located, dotted where concealed

Base from Alaska Reconnaissance Topographic Series maps: Mt. Hayes, Gulikana, Nabesna, and Tanacross, sheets prepared by the U. S. Geological Survey, International Boundary Commission, and the U. S. Coast and Geodetic Survey. Edition of 1951

Geology from original surveys by the Alaska Branch from 1902 to 1908, revised and correlated through field studies by Fred H. Moffit at intervals from 1929 to 1942, inclusive



GEOLOGIC MAP AND SECTION OF THE EASTERN ALASKA RANGE AND ADJACENT AREA FROM THE INTERNATIONAL BOUNDARY TO THE TOK RIVER

