GEOLOGIC RECONNAISSANCE MAP AND SECTION OF FROSTY PEAK VOLCANO AND VICINITY

SCALE 1:250,000

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER

EXPLANATION

Q
Allochthonous
Recent stream and beach deposits of sand, silt, clay, and gravel

Qd
Dune sand
Only larger deposits shown

PD
Glacial drift
Undifferentiated till and stratified drift

Qz
Frosty Peak volcanics
Light-gray porphyry basaltic flows and interbedded pyroclastic deposits. Qz, volcanic rocks of the summit cone

Qz
Morzhovoi volcanics
Porphyry altivine basaltic lavas and interbedded pyroclastic deposits, and some volcanic sedimentary rocks

Qm
Tachiniti formation
Partly consolidated marine sediments, conglomerates, and breccias

Qm
Quartz diorite
Medium to coarse-grained crystalline quartz diorite stocks intruded into Belonfokin tuff

Qm
Belofokin tuff
Well-bedded basaltic andesite tuff, agglomerate, and volcanic sedimentary rocks. Includes some interbedded basalt flows, and sills, dikes, and plugs of basalt and andesite

TERTIARY ROCKS WHOSE RELATIVE AGES ARE UNKNOWN

Qm
Basalt flows of Mt. Simson
Olivine basaltic flows

Qm
Hornblende-andesite plugs

Volcanic rocks of Thimpoit Lagoon
Predominately basaltic tephra tuff, and some basaltic flows, breccia, and agglomerate

Contact
Dashed where approximately located

Indefinite, inferred or gradual contacts

Inferred fault
Dotted where concealed

Strike and dip of beds

Inferred former profile of volcano shown in section A-A'