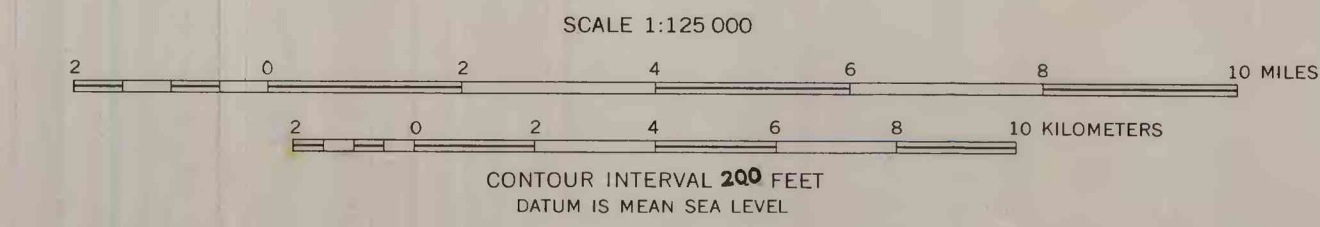


EXPLANATION

UNCONSOLIDATED DEPOSITS	SEDIMENTARY ROCKS	IGNEOUS ROCKS
<p>QUATERNARY</p> <p>Qag, Qfp, Qco: Qag, Alluvium; Qfp, Floodplain deposits</p> <p>Qsu: Silt, undifferentiated</p> <p>Qf: Windblown silt</p> <p>Qst: Silt terrace</p> <p>Qhe: High level gravels</p> <p>Qpu: Landslides</p> <p>Qsw: Swamp deposits</p> <p>Qls: Dolomite and limestone</p> <p>Qch: Chert and shale</p>	<p>QUATERNARY</p> <p>Qab: Shale, graywacke, conglomerate</p> <p>Qac: Graywacke, shale and conglomerate</p> <p>Qad: Greenish shale and conglomerate</p> <p>Qae: Argillite, shale and limestone</p> <p>Qaf: Grit, quartzite, shale and argillite</p> <p>Qag: Greenschist</p>	<p>LOWER PALEOZOIC</p> <p>Qm: Mafic and ultramafic rocks</p>
<p>PERMIAN AND TRIASSIC</p> <p>Qpu: Extrusive, intrusive, and sedimentary</p>	<p>PERMIAN AND TRIASSIC</p> <p>Qpe: Extrusive and sedimentary rocks</p>	<p>UNCONFORMITY</p> <p>Qpu: Thrust Fault</p>

Proposed trans-Alaskan Pipeline Route approximately located. Data supplied by Alyeska Pipeline Service Company, March 1971, or earlier.

Base from U. S. Geological Survey 1:250,000 series, 1956



Geology by Reuben Kachadoorian, 1969, Reuben Kachadoorian and H. J. Moore II, 1970. Bedrock geology by R. M. Chapman, F. R. Weber, and W. E. Yeend, 1970.

Bedrock units shaded.

PRELIMINARY ENGINEERING GEOLOGIC MAPS OF THE PROPOSED TRANS-ALASKA PIPELINE ROUTE, TANANA AND LIVENGOOD QUADRANGLES

Compiled by Reuben Kachadoorian 1971

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