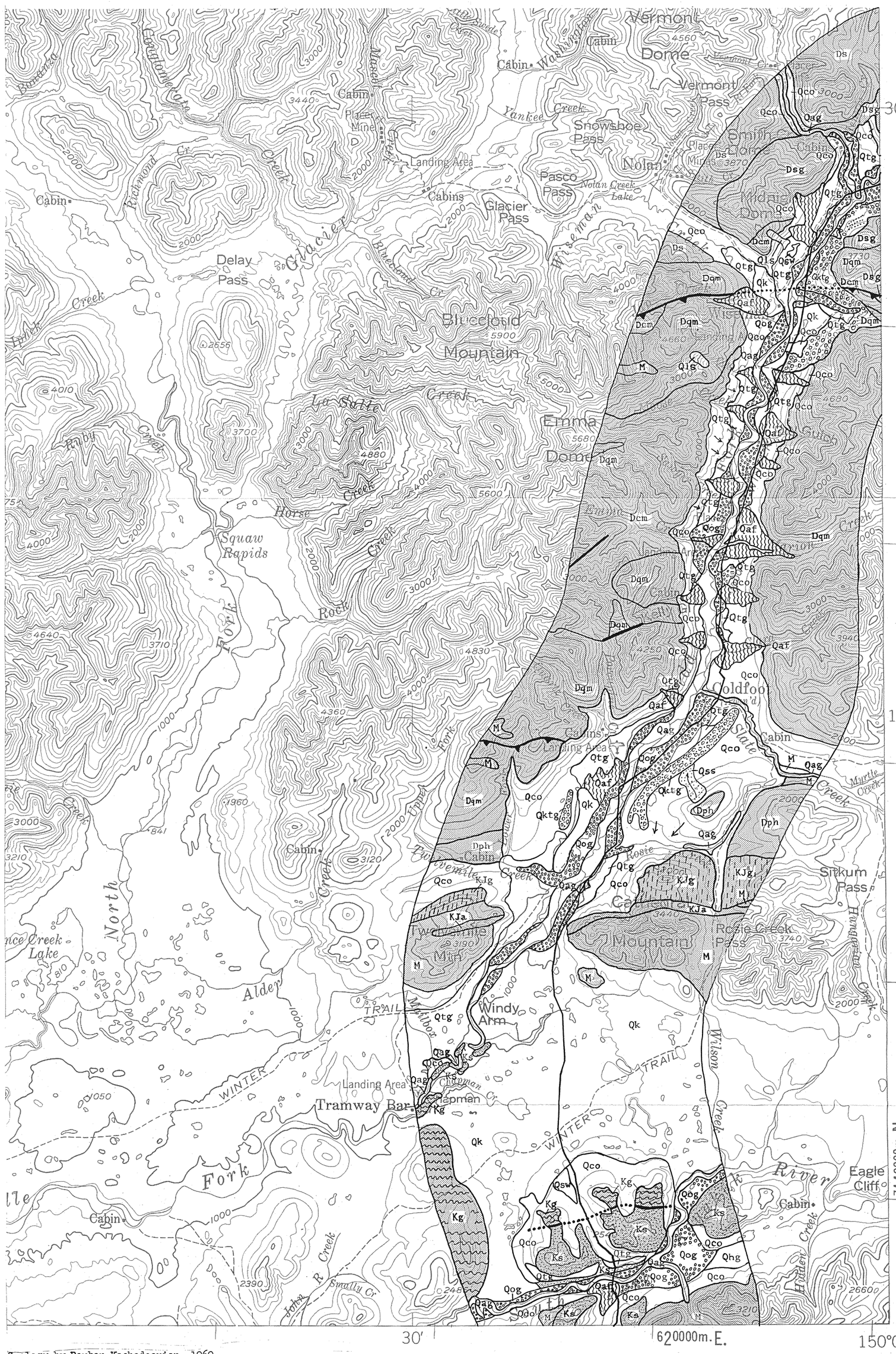
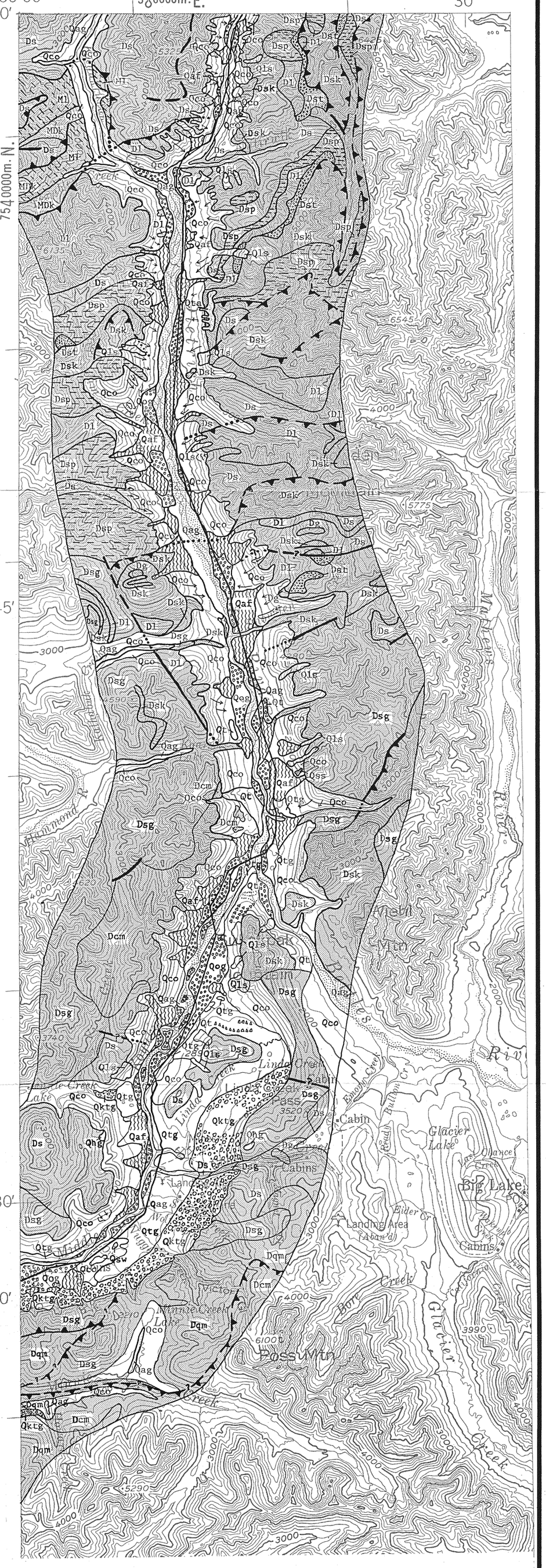



Geology by Reuben Kachadoorian, 1969, Reuben Kachadoorian and W. E. Yeend, 1970. Bedrock geology from W. P. Brosgé and H. N. Reiser, 1960 Progress Map of the Geology of the Wiseman Quadrangle, Alaska. U. S. Geological Survey Open-File Report.

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

Bedrock units shaded.




Geology by Reuben Kachadoorian, 1969, Reuben Kachadoorian and W. E. Yeend, 1970. Bedrock geology from W. P. Brosgé and H. N. Reiser, 1964 Geologic Map and Section of the Chandalar Quadrangle Alaska. U. S. Geological Survey Map I-375

SCALE 1:125 000

2 0 2 4 6 8 10 MILES

2 0 2 4 6 8 10 KILOMETERS

CONTOUR INTERVAL FEET
DATUM IS MEAN SEA LEVEL

N

## EXPLANATION

### UNCONSOLIDATED DEPOSITS

QUATERNARY — Pleistocene - Holocene

- Qco — Colluvium
- Qaf — Alluvial
- Qta — Talus
- Qag — Modern alluvium
- Qls, Qss — Qls, Land slides; Qss, Soil slides
- Qsw — Swamp deposits
- Qog — Older alluvium
- Qtg — Terrace gravels
- Qhg — High level gravels
- Qt — Till deposits
- Qktg — Kame terrace gravels
- Qk — Kettle moraine complex

### SEDIMENTARY ROCKS

CRETACEOUS — Lower Cretaceous

- Kcs — Conglomeritic sandstone
- UNCONFORMITY
- Kcg — Graywacke, conglomerate, shale

JURASSIC AND CRETACEOUS — Upper Jurassic and Lower Cretaceous

- KJa — Argillite and chert
- KJg — Graywacke
- UNCONFORMITY

MISSISSIPPIAN — Lower and Upper Mississippian

- Ml — Lisburne Group Dolomite and limestone

DEVONIAN AND MISSISSIPPIAN — Upper Devonian and Lower Mississippian

- Mdk — Kayak Shale Kanayut Conglomerate

### IGNEOUS ROCKS

MESOZOIC

- M — Mafic igneous rocks

### SEDIMENTARY AND METAMORPHIC ROCKS

DEVONIAN — Upper Devonian

- Ds, Dst, Dsp — Ds, Slate, phyllite, and siltstone; Dst, Siliceous siltstone; Dsp, Chloritic slate and phyllite
- LOCAL UNCONFORMITY
- Dsg — Siltstone and grit
- LOCAL UNCONFORMITY
- Dl — Limestone and siltstone
- LOCAL UNCONFORMITY
- Dsk — Middle and Upper Devonian: Skajit Limestone

DEVONIAN AND DEVONIAN(?)

- Dg — Greenstone
- Dqm — Quartz - mica schist
- Dph — Phyllite
- Dcm — Calcareous schist and marble

Contact
Locally gradational and approximately located

Ice marginal channels

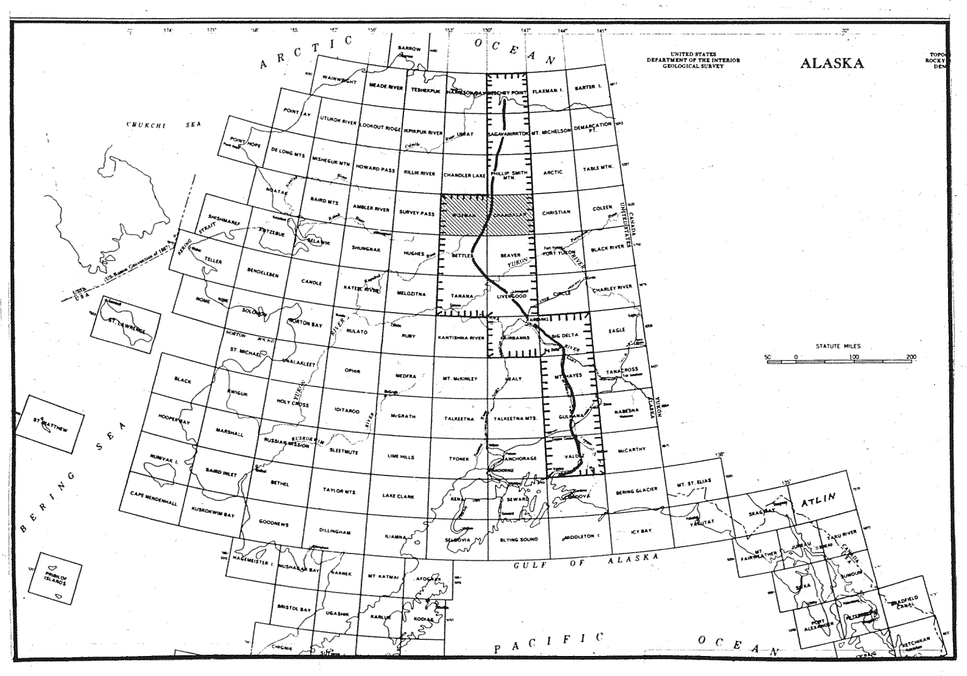
Moraines

Proposed trans-Alaskan Pipeline Route approximately located.
Data supplied by Alyeska Pipeline Service Company December 1970, or earlier.

Fault
Dashed where approximately located; queried where doubtful; dotted where concealed.

Thrust Fault
Dashed where approximately located; queried where doubtful; dotted where concealed. Sawteeth on upper plate.

Arrows indicate downslope movement




# PRELIMINARY ENGINEERING GEOLOGIC MAPS OF THE PROPOSED TRANS-ALASKA PIPELINE ROUTE, WISEMAN AND CHANDALAR 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.