DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE MAP
74-147

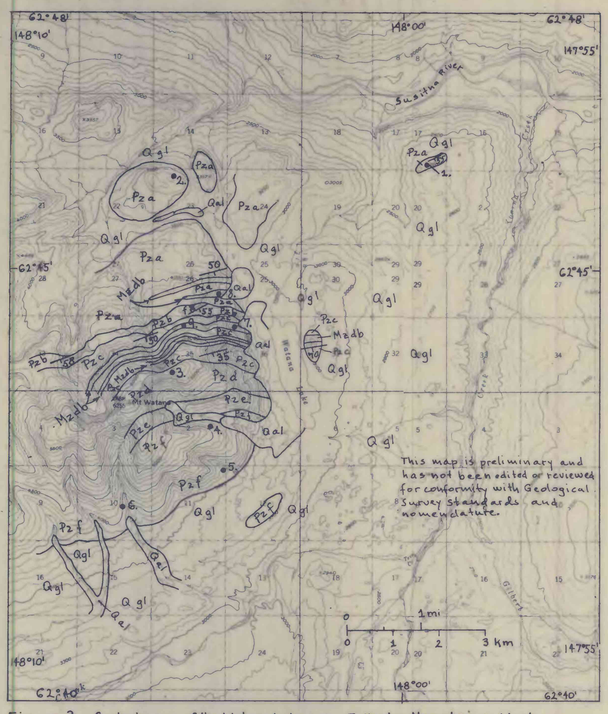

Figure 3. – Geologic map of the Watana Lake area, Talkeetna Mountains, Alaska

Base from USGS 1:63,360 topographic series;
Talkeetna Mountains (D-2); (D-3); (C-2); (C-3) 1951
Contour Interval 100 Feet

EXPLANATION

Layered rocks

- Qal — Alluvium
- Qgl — Glacial deposits

QUATERNARY

- Pzf — Metavolcanic unit
- Pze — Coarse metavolcaniclastic unit
- Pzd — Metatuff unit
- Pzc — Phyllite unit
- Pzb — Fossiliferous marble unit
- Pza — Basal metavolcaniclastic unit

Metavolcanic and metavolcaniclastic sequence

LATE PALEOZOIC

Intrusive rocks

- Mzdb — Metadiabase — EARLY MESOZOIC

Contact, approximately located

•3. Location of chemically analyzed representative bedrock sample. Number refers to sample number in table 1

50 Approximate strike and dip of beds

fx Fossil locality

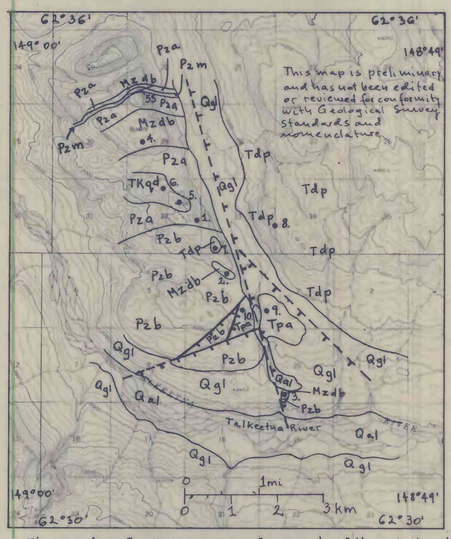

Figure 4. – Geologic map of a part of the Talkeetna Mountains C-4 quadrangle, Talkeetna Mountains, Alaska

Base from USGS 1:63,360 topographic series;
Talkeetna Mountains (C-4) 1951
Contour Interval 100 Feet

EXPLANATION

Layered rocks

- Qal — Alluvium
- Qgl — Glacial deposits

QUATERNARY

- Tpa — Pyroxene andesite
- Tdp — Dacite porphyry

TERTIARY

- Pzb — Metavolcaniclastic unit
- Pza
- Pzm — Marble interbed
- Pza — Metavolcanic unit

Metavolcanic and metavolcaniclastic sequence

LATE PALEOZOIC

Intrusive rocks

- TKqd — Quartz diorite — CRETACEOUS–EARLY TERTIARY
- Mzdb — Metadiabase — EARLY MESOZOIC

Contact, approximately located

•2. Location of chemically analyzed representative bedrock sample. Number refers to sample number in table 2.

55 Approximate strike and dip of marble interbed

Gravity fault, approximately located; dashed where inferred. Teeth indicate downthrown side.

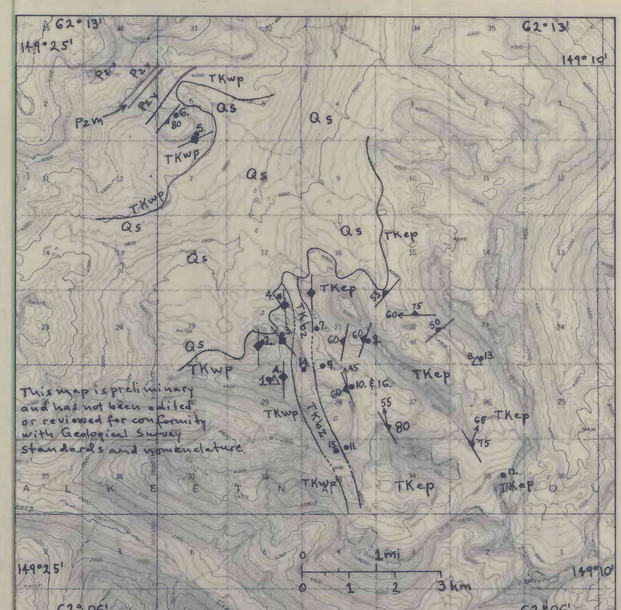

Figure 5. – Geologic map of a part of the Talkeetna Mountains A-5 quadrangle, Talkeetna Mountains, Alaska

Base from USGS 1:63,360 topographic series;
Talkeetna Mountains (A-5) 1950
Contour Interval 100 Feet

EXPLANATION

Layered rocks

- Qs — Surficial deposits, glacial deposits and alluvium undifferentiated — QUATERNARY

- Pzv
- Pzm
- Pzv

Metavolcanic and marble sequence — LATE PALEOZOIC

Intrusive rocks

- TKbz — Border zone of gneissose tonalite-quartz diorite, contact schists, and alaskitic adamellite and granodiorite
- TKwp — Tonalite-quartz diorite of western pluton
- TKep — Tonalite-quartz diorite of eastern pluton

LATE CRETACEOUS–EARLY TERTIARY

Contact, approximately located

60 Strike and dip of foliation

Strike of vertical foliation

55 Bearing and plunge of lineation

B△ Location of sample dated by potassium-argon method. Letter refers to sample designation in table 4.

•6. Sample location of chemical and/or modal analyses. Number refers to sample number in table 3.