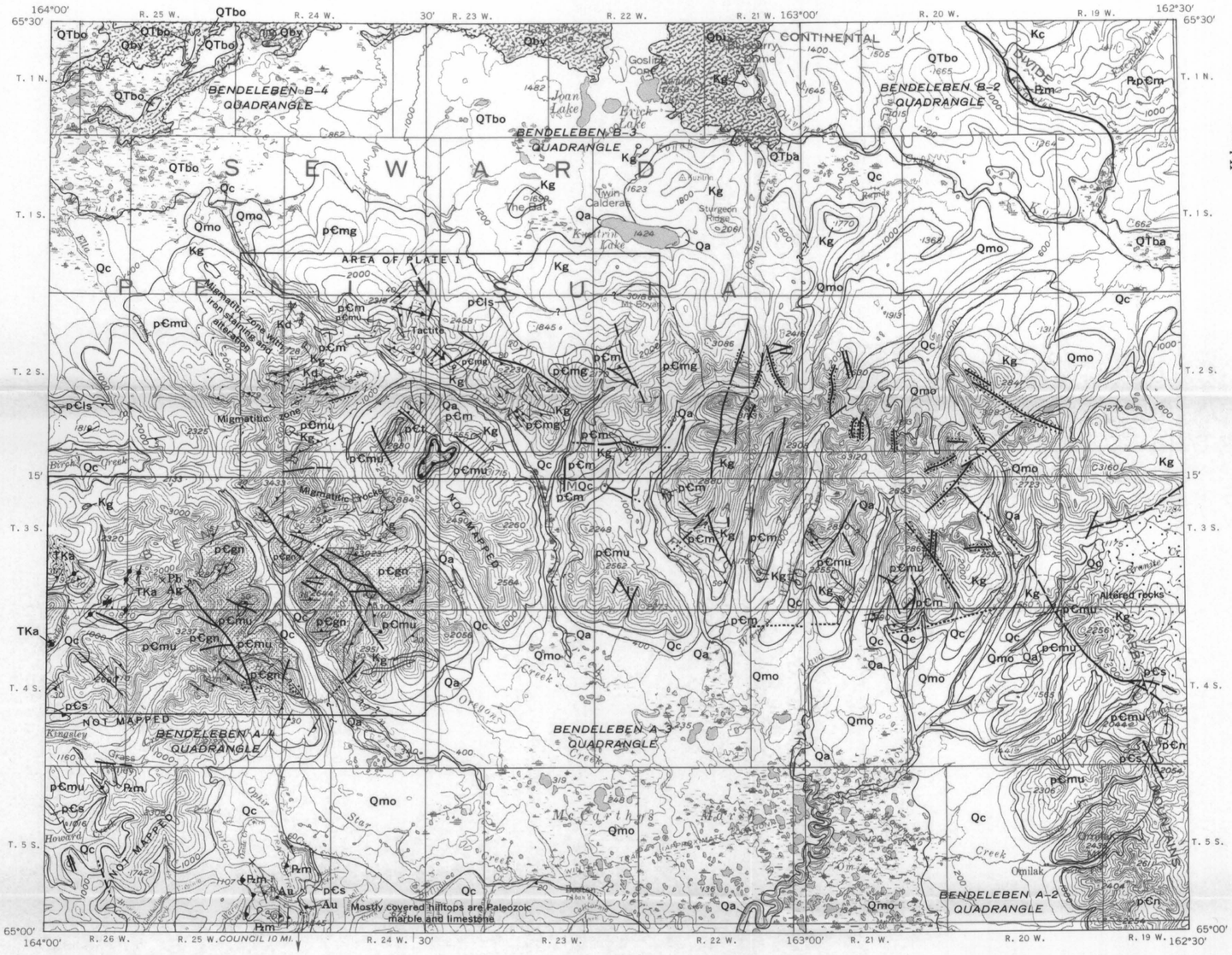

Base from U.S. Geological Survey, 1950

Geology by C. L. Sainsbury, 1969

RECONNAISSANCE GEOLOGIC MAP OF PART OF THE BENDELEBEN 1:250,000 QUADRANGLE, BENDELEBEN MOUNTAINS, SEWARD PENINSULA, ALASKA

SCALE 1:250 000

5 0 5 10 MILES

5 0 5 10 KILOMETERS

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL

1972 MAGNETIC DECLINATION FOR THIS SHEET VARIES FROM 18°00' EASTERLY FOR THE CENTER OF THE WEST EDGE TO 19°00' EASTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 0°2' WESTERLY

EXPLANATION

Asterisk (*) indicates fuller description of unit is shown on plate 1

QUATERNARY

Holocene

- **Qc** — Surficial cover*
- **Qa** — Alluvium*
- **Qby** — Young basalt
- **Qbi** — Intermediate basalt
- **Qmo** — Moraine and outwash deposits

TERTIARY OR QUATERNARY

- **QTbo** — Old basalt and ash
- **QTba** — Basalt and ash

CRETACEOUS OR TERTIARY

- **TKa** — Altered dikes*

CRETACEOUS

- **Kg** — Granitic rock*
- **Kd** — Dikes*
- **Kc** — Limestone conglomerate

PALEOZOIC

- **Pm** — Marble, limestone, and minor amounts of shale
  Intricately deformed, but bedding and fossils still preserved

PRECAMBRIAN

- **P₂p€m** — Marble, schist, and phyllite
  Intricately intermixed tectonically
- **p€s** — Graphitic phyllite and shale*
- **p€n** — Nome Group
  Schistose marble with interbedded chloritic schist; some metagabbro
- **p€gn** — Gneiss dome*
- **p€t** — Tectonically sheared marble
- **p€mu / p€ls** — Metamorphic rocks*
  p€ls, *thin limestones, marble, and calcite-mica schists*
- **p€m** — Marble and marble schist*
- **p€mg** — Paragneisses and granitic rocks*

Contact
Approximately located, gradational, or inferred. Queried where doubtful. Sawteeth indicate contact may be a thrust fault

Fault
Dashed where approximately located; Dotted where concealed. Bar and ball on downthrown side

Thrust fault
Sawteeth on upper plate

Inclined **Inclined** **Vertical**
Approximate strike and dip or direction of dip of foliation or schistosity

Anticline **Syncline**
Folds
Showing approximate trace of crestline or troughline and plunge of axis

Direction of plunge of dragfold axis

Pb, Ag
Prospect pit
Pb, *lead;* Ag, *silver*

Au
Placer gold mine

Altered rocks
Kaolinized and iron-stained; in marble includes local tactite (?)

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