UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1249
PLATE 1

E X P L A N A T I O N

UNCONSOLIDATED SEDIMENTARY DEPOSITS

Recent

- Qmr — Moraine deposits of existing glaciers
- Qrg — Rock-glacier deposits *Active or reactivated*
- Qag — Flood-plain deposits *Gravel and sand*
- Qlg — Beach-ridge deposits
- Qp — Pingo deposits

Pleistocene and Recent

- Qt — Talus
- Qr — Rubble
- Qc — Colluvium
- Qsp — Organic deposits
- Qaf — Alluvial-fan deposits
- Qcf — Coalescent alluvial-fan deposits
- Qe — Eolian deposits
- Qts — Terrace deposits
- Qas — Alluvial silt

Pleistocene

Donnelly Glaciation

- Qdm, Qdml — Moraine deposits *Qdm, end and ground moraine; Qdml, late Donnelly end and lateral moraines*
- Qfg — Outwash gravel
- Qg — Gravel, undifferentiated *Mostly outwash, but mixed with nonglacial gravel*

Delta Glaciation

- Qmt — Moraine deposits
- Qct — Disturbed and modified moraine deposits

QUATERNARY

SEDIMENTARY AND METAMORPHIC ROCKS

- Tn — Nenana Gravel (TERTIARY)
- Tcc — Carbonaceous silt and clay (TERTIARY)
- bc — Birch Creek Schist (PRE-CAMBRIAN OR PALEOZOIC)

IGNEOUS ROCKS

- Kf — Felsite dikes (CRETACEOUS)
- Kg — Granitic rocks (CRETACEOUS)

STRUCTURE SYMBOLS

- Contact — *Dashed where approximately located; short dashed where inferred; queried where doubtful*
- Fault — U, *upthrown side*; D, *downthrown side*
- Horizontal; Inclined (50); Vertical — Strike and dip of foliation
- Bearing and plunge of lineation (23)
- Bedrock sample locality

Base by U.S. Geological Survey

GEOLOGIC MAP OF THE JOHNSON RIVER AREA, ALASKA

SCALE 1:63 360

1 ½ 0 1 2 3 4 5 MILES

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVALS 50 AND 100 FEET
DATUM IS MEAN SEA LEVEL

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1968

Geology by G. W. Holmes, 1957 and 1960 assisted in 1957 by H. B. Groom, Jr.; and by H. L. Foster, 1960–61; assisted in 1961 by Mona Goransen

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