



EXPLANATION

UNCONSOLIDATED SEDIMENTARY DEPOSITS

- Recent**
 - Peat** (Qp): Peat
 - Recent alluvial fans** (Qaf): Includes conglomerate deposited along The Alaska Railroad between Lagoon and Carlo
 - Stream gravel** (Qst): Deposits in modern stream beds
 - Terrace gravel** (Qter): Deposited by the Nenana River and its tributaries after the Carlo readvance
- Pleistocene**
 - Carlo readvance**
 - Alluvium** (Qca): Deposited by tributaries of the Nenana River during the Carlo readvance
 - Sand** (Qcs): Deposited in lake behind the end moraine of the Carlo readvance
 - Outwash gravel** (Qco): Deposited by the Nenana River during the Carlo readvance
 - End moraine of the Carlo readvance** (Qcm): End moraine of the Carlo readvance
 - Riley Creek glaciation**
 - Varved clay** (Qrc): Deposited in glacial lake of the Riley Creek before the Carlo readvance
 - Outwash gravel** (Qro): Deposited by the Nenana River before the Carlo readvance
 - Glacial moraine deposits** (Qrm): Terminal moraine, lateral moraine, and ground moraine. Mainly till, but includes till-mantled hills of outwash gravel and lake clay, and some closely pitted outwash deposits
 - Healy glaciation**
 - Varved clay and silt** (Qhc): Deposited in glacial lake Moody
 - Moraine and ice-contact deposits** (Qhe): Question marks indicate deposits whose assignment to this glaciation is uncertain
 - Brown Dry Creek glaciation**
 - Glacial moraine** (Qbc): Glacial moraine
 - Glacial erratics** (Qbe): Glacial erratics

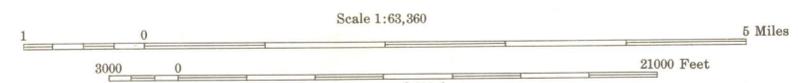
SEDIMENTARY AND METAMORPHIC ROCKS

- Quaternary**
 - Glacial erratics** (Qbe): Glacial erratics
- Cretaceous**
 - Cantwell formation** (Kc): Cantwell formation
 - Birch Creek schist** (pCb): Birch Creek schist
- Cretaceous (Triassic?)**
 - Igneous Rocks**
 - Rhyolite intrusive into the Cantwell formation** (Ri): Rhyolite intrusive into the Cantwell formation
 - Diabase intrusive into the Cantwell formation and basalt intrusive into the Birch Creek schist** (Kd): Diabase intrusive into the Cantwell formation and basalt intrusive into the Birch Creek schist
 - Andesite intrusive into the Cantwell formation** (Ka): Andesite intrusive into the Cantwell formation
 - Intrusive greenstone** (Igr): Intrusive greenstone

- Contact**
 - Contact** (solid line)
 - Dashed where approximately located** (dashed line)
 - Inferred contact** (dotted line): Includes contacts mapped from topographic expression only
- Fault**
 - Fault** (D/U): Fault
 - U, upthrown side; D, downthrown side**
 - Dotted where concealed** (dotted line)
- Anticline**
 - Anticline** (red line with arrows): Showing trace of axial plane and bearing and plunge of axis
- Syncline**
 - Syncline** (red line with arrows): Showing trace of axial plane
- Strike and dip of beds**
 - Strike and dip of beds** (20): Strike and dip of beds
 - Approximate strike and dip of beds** (85): Approximate strike and dip of beds
 - Strike of vertical foliation** (V): Strike of vertical foliation
- Railroad milepost**
 - Railroad milepost** (Mile 330): Railroad milepost

Base from U. S. Geological Survey Map of Healy C-4 (1952) quadrangle
Geology by Clyde Wahrhaftig, assisted by John W. James, 1948

GEOLOGIC MAP OF PART OF HEALY C-4 QUADRANGLE, ALASKA, SHOWING PLEISTOCENE DEPOSITS ALONG THE NENANA RIVER



Contour interval 100 feet
Dotted lines represent half-interval contours
Areas not surveyed in detail indicated by broken lines
Datum is mean sea level



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QUATERNARY

CRETACEOUS
PRE-CAMBRIAN

CRETACEOUS
TRIASSIC(?)