GEOLOGIC RECONNAISSANCE MAP OF CENTRAL ALASKA RANGE

Scale 250000

5 0 5 10 15 20 Miles

5 0 5 10 15 20 Kilometers

Contour interval 200 feet

Datum is mean sea level

Broken lines indicate probable topography of unsurveyed areas

1932

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NOTE.—Elevations adjacent to the railroad are based upon Alaskan railroad surveys. Topography of northeast corner appears approximately 200 feet too high

EXPLANATION

SEDIMENTARY ROCKS

Recent

Qag — Stream gravel

Pleistocene and Recent

Qmt — Glacial moraines, outwash, and terrace gravel

Eocene or later

Tn — Nenana gravel
(Loosely consolidated high gravel and sand of yellow or buff color, locally tilted)

Probably Eocene

Tcb — Coal-bearing formation
(Soft sandstone, clay, and gravel, generally light-colored and locally containing lignitic coal)

PROBABLE UNCONFORMITY

Eocene

Tc — Cantwell formation
(Dark-colored conglomerate, sandstones, grits, and shales, with some carbonaceous material)

PROBABLE UNCONFORMITY

Upper Jurassic or Cretaceous

JK — Mainly black shales with minor amounts of thin-bedded graywacke, conglomerate, and shaly limestone

K — Argillite, slate, graywacke, minor amounts of conglomerate, chert, and limestone, with which are associated buff and greenstone flows, in part Triassic and in part probably Permian

UNCONFORMITY

Devonian in part

Dsg, Dls, Dsg — Black chert, slaty, and thin-bedded limestone, interbedded; underlain by massive white, gray, or pink limestone, generally crystalline, containing Middle Devonian fossils (Dls), which rests on a series of dark-colored argillite, slate, graywacke, and thin-bedded limestone (Dsg). Possibly includes beds both older and younger than Devonian

Pre-Devonian

sch — Schist, slate, limestone, and serpentine

PROBABLE UNCONFORMITY

bc — Birch Creek schist
(Micaceous and quartzitic schist and phyllite. At mapped includes some metamorphosed igneous material)

IGNEOUS ROCKS

Eocene or later

Ti — Dikes, sills, stocks, and lava flows of various composition, mainly of early Tertiary age

Tg — Granitic intrusive rocks
(Mainly post-Cantwell)

bl — Basic lava flows and tuffs

D U — Fault
(U, upthrow; D, downthrow)

Antimony lode

× Gold and lead-silver lode

Gold placer

Undifferentiated Paleozoic rocks in Theodore Pass to Divide Mountain region
(Slate, chert, graywacke, quartzite, and thin-bedded limestone, cut by abundant dikes and sills of granular intrusives (Tg). Relations to undifferentiated rocks on north flank of range (Pzu) unknown)

Pzu — Undifferentiated Paleozoic rocks on north flank of range
(Slate, argillite, graywacke, thin-bedded limestone, shale, sandstone, and chert with some schist and phyllite. May include some Mesozoic rocks)

ts — Totatlanika schist
(Altered chlorite and metamorphosed sediments, probably Paleozoic)

QUATERNARY
TERTIARY
JURASSIC OR CRETACEOUS
TRIASSIC
MESOZOIC
PALEOZOIC
PRE-CAMBRIAN
LATE PALEOZOIC AND EARLY MESOZOIC

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