

EXPLANATION

Qc
Tundra
(shown only where it forms a continuous cover on bedrock)

Qa1
Alluvium

Qo
Older alluvium

Kg4
Medium-grained biotite granite and leucogranite of Zone 4
(Leucogranite is spatially related to altered fault zones)

Kg3B
Porphyritic biotite granite of Zone 3
(Forms textural facies 3B)

Kg3A
Seriatic biotite granite of Zone 3
(Forms textural facies 3A)

Kg2
Porphyritic biotite granite of Zone 2
(Transitional with Zone 1; forms textural facies 2)

Kg1
Fine- to coarse-grained biotite granite of Zone 1
(Forms textural facies 1A, 1B, and 1C)

Pzm
Marble

pEsu
Granitic metasediments undivided

pCbh Banded hornfels pCh Dark-gray hornfels pCps Phyllitic schist pEs Metasiltite pCms Mica-quartz schist pCcls Chlorite muscovite-quartz schist pCl Schistose marble

pCngg
Granite orthogneiss

pCgnp
Biotite-plagioclase-quartz paragneiss

-----?-----
Dashed where approximately located, queried where inferred
Contact between geologic units

-----▲-----
Dashed where approximately located; sawteeth on upper plate
Thrust fault

-----?-----
Dashed where approximately located, queried where inferred, and stippled where altered and/or mineralized
High-angle fault

↘
Strike and dip of schistosity or foliation

↘
Strike and dip of joint

↘
Strike of vertical joint

■ ● ○
Dike Thermal spring Placer mine workings

④
Mineralized area discussed in text

HOLOCENE

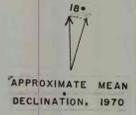
LATE CRETACEOUS

PALEOZOIC

PRECAMBRIAN

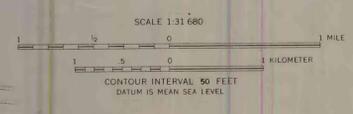
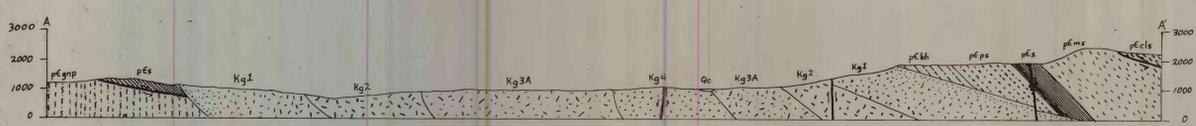
PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

BASE FROM U. S. GEOLOGICAL SURVEY:
BENDELEBEN D-5 AND D-6, 1950



GEOLOGY BY TRAVIS HUDSON 1968, 1969, AND 1970;
C. L. SAINSBURY, R. KACHADOORIAN, AND T. RICHARDS 1968

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.



GEOLOGIC MAP AND GENERALIZED CROSS SECTION OF THE SERPENTINE HOT SPRING AREA, SEWARD PENINSULA ALASKA