



FIGURE 40 GEOLOGIC MAP OF THE TIN AND BERYLLIUM DEPOSITS ON TIN CREEK, WESTERN SEWARD PENINSULA, ALASKA

0 400 800 FEET  
 Datum is mean sea level  
 Contour interval 50 feet

Base from plane table survey

EXPLANATION

- Qal Alluvium
- Qt Terrace gravels
- Dike, showing dip  
Principally lamprophyre  
dashed where inferred,
- Dike, showing dip  
Principally rhyolite, rhyolite porphyry,  
and granite. Dashed where inferred.
- Kg, medium-grained biotite granite
- Kgf, fine-grained biotite granite
- Kgg, partly greisenized biotite granite that contains cassiterite and  
many sulfide minerals including pyrite, arsenopyrite, marmatite,  
stannite, molybdenite and galena
- Kgi, area with heavy cover of granite rubble, probably underlain  
by granite
- Old Limestone
- Old, principally medium to thick-bedded gray limestone, near granite  
recrystallized to coarse-grained marble
- Olb, interbedded medium to thick-bedded or massive light brownish-  
gray limestone and subordinate thin-bedded limestone
- Olam Limestone and argillaceous limestone
- Ola Argillaceous limestone, very thin-bedded
- Fluorite-beryllium veins, locally with tin minerals  
Dashed where present as heavy, linear runs of float near outcrops;  
parallel lines where inferred from linear runs of float; disoriented  
lines where present as scattered float of veinlets similar to those  
exposed in nearby trenches
- Tactite  
Includes massive garnet-rich tactite in large masses, thin, discontinuous  
magnetite-fluorite-hornblende "ribbon rock"; and thin, relatively continuous  
garnet-tactite veins that contain sulfide minerals
- Clay alteration
- Dolomite breccia
- Contact  
Dashed where gradational or approximately located
- Fault  
Contact or thrust fault, queried where approximately located
- Strike and dip of beds
- Strike and dip of joints
- Adit
- Pit
- Trench
- Triangulation station, flag or cairn as marked
- Sample of stream sediment or alluvium  
Showing beryllium content in parts per million
- Contour line

QUATERNARY  
 CRETACEOUS  
 ORDOVICIAN

Geology by  
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