

EXPLANATION



ROCKS WEST OF THE
PORT GRAHAM FAULT

ROCKS EAST OF THE
PORT GRAHAM FAULT

CLASTIC ROCKS

Quaternary	Qd	Surficial deposits: unconsolidated sand, gravel, and boulders.	
	unconformity		
Tertiary	Tkt	Tyonek Formation: poorly lithified sandstone, siltstone, mudstone, conglomerate, and coal	
	unconformity		
Lower Jurassic	Jpu	Jpu u	Pogibshi Formation Jpnu Upper part - Naskowhak Member: tuffaceous sandstone and siltstone
		Jpu l	Jpl Lower part - Naskowhak Member: tuffaceous siltstone, mudstone, sandstone, and coal
	Jpj	Jpju	Jpju Upper part - July Member: vitric tuff, lapilli tuff, and tuff-breccia
		Jpjl	Jpjl Lower part - July Member: tuffaceous sandstone, conglomerate, mudstone, and tuff
	Jpd	Jpdu	Jpdu Upper part - Dangerous Member: tuffaceous conglomerate-breccia sandstone and tuff
		Jpdm	Jpdm Middle part - Dangerous Member: tuff, tuffaceous siltstone, and limestone
Jpd	Jpdl	Jpdl Lower part - Dangerous Member: volcanic conglomerate-breccia and sandstone	
	Jpu	Jpu Pogibshi Formation undifferentiated	
Upper Triassic and Lower Jurassic	Jpg	Port Graham Formation: tuff, tuffaceous sediments, shale, limestone, chert, and siltstone	
	local unconformity		

IGNEOUS ROCKS

Note: Many unnamed greenish-gray, mostly andesitic dikes crop out in the sea cliffs and adjacent areas between Point Pogibshi and Point Bede. The dikes cut the Point Bede Quartz Diorite and are disconformably overlain by the Tyonek Formation.

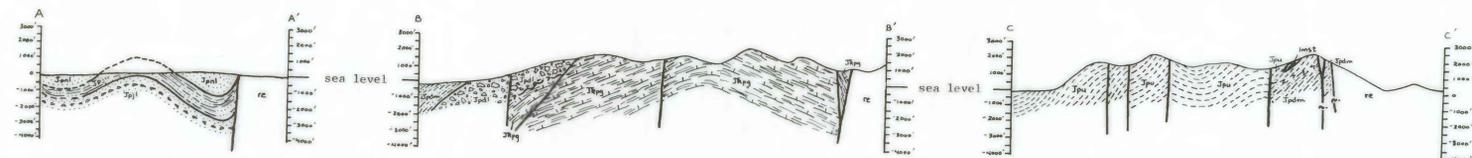
Jbd Point Bede Quartz Diorite

UNDIFFERENTIATED ROCKS

re Rocks east of the Port Graham Fault: includes crystalline metamorphic rocks, pillow lava, chert, tuff, limestone, argillite

MAP SYMBOLS

- Contact, dashed where approximate, dotted where concealed, queried where inferred
- Fault, dashed where approximate, dotted where concealed, queried where inferred
- Strike and dip
- Estimated strike and dip
- Anticline showing direction of plunge, dashed where approximate, dotted where concealed
- Syncline showing direction of plunge, dashed where approximate



Scale: 1:63,360
Contour Interval 100 feet
Geology by J. S. Kelley, 1975, 1976, 1977, 1983
Topographic base from U.S. Geological Survey
Seldovia A-6, B-5, B-6 15' Quadrangle Maps

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

GEOLOGIC MAP AND SECTIONS OF THE SOUTHWESTERN KENAI PENINSULA
WEST OF THE PORT GRAHAM FAULT, ALASKA

by
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1983