



EXPLANATION

IGNEOUS ROCKS	SEDIMENTARY ROCKS	QUATERNARY
<p>Lava flows and associated rocks</p> <p>Volcanic rocks; mainly basic flows off post Eocene age</p> <p>Dikes and sills</p> <p>Basic tuffs and flows</p> <p>Basic lavas, tuff, and greenstone</p> <p>Nikolai greenstone</p> <p>Granite and intruded porphyritic rocks. Includes some basic rocks in the Tonsina area</p> <p>Contact, dashed where approximately located</p> <p>Mine</p> <p>Placer concentrate</p> <p>Outcrop test, sample collected</p> <p>Outcrop test</p>	<p>Stream gravels, sand, and silt, glacial morainal deposits, and outwash gravels</p> <p>Undifferentiated Tertiary sedimentary rocks; mainly shales and sandstones with interbedded coal</p> <p>Matanuska formation. Shales and sandstones of the Matanuska Valley</p> <p>Kennicott formation</p> <p>Jurassic sedimentary rocks of the eastern Talkeetna Mts. Includes sandstone, shale, and arkose</p> <p>McCarthy shale</p> <p>Chitistone limestone</p> <p>Undifferentiated Carboniferous rocks, argillite, quartzite, conglomerate, tuff, and lava flows</p> <p>Birch Creek schist</p>	<p>QUATERNARY</p> <p>TERTIARY</p> <p>CRETACEOUS</p> <p>JURASSIC</p> <p>PERMIAN TRIASSIC(?)</p> <p>CARBONIFEROUS TO TERTIARY</p> <p>PRE-CAMBRIAN</p>

Undifferentiated Mesozoic rocks. Includes argillite, graywacke, and slate

Join line for west half of Pl. I

Base from U.S. Geological Survey Alaska Maps 25, 26, 29, 51, and 54
Geology from U.S. Geological Survey Bulletins 688, 894, and 907

GEOLOGIC SKETCH MAP SHOWING SAMPLE LOC