

DESCRIPTION OF MAP UNITS

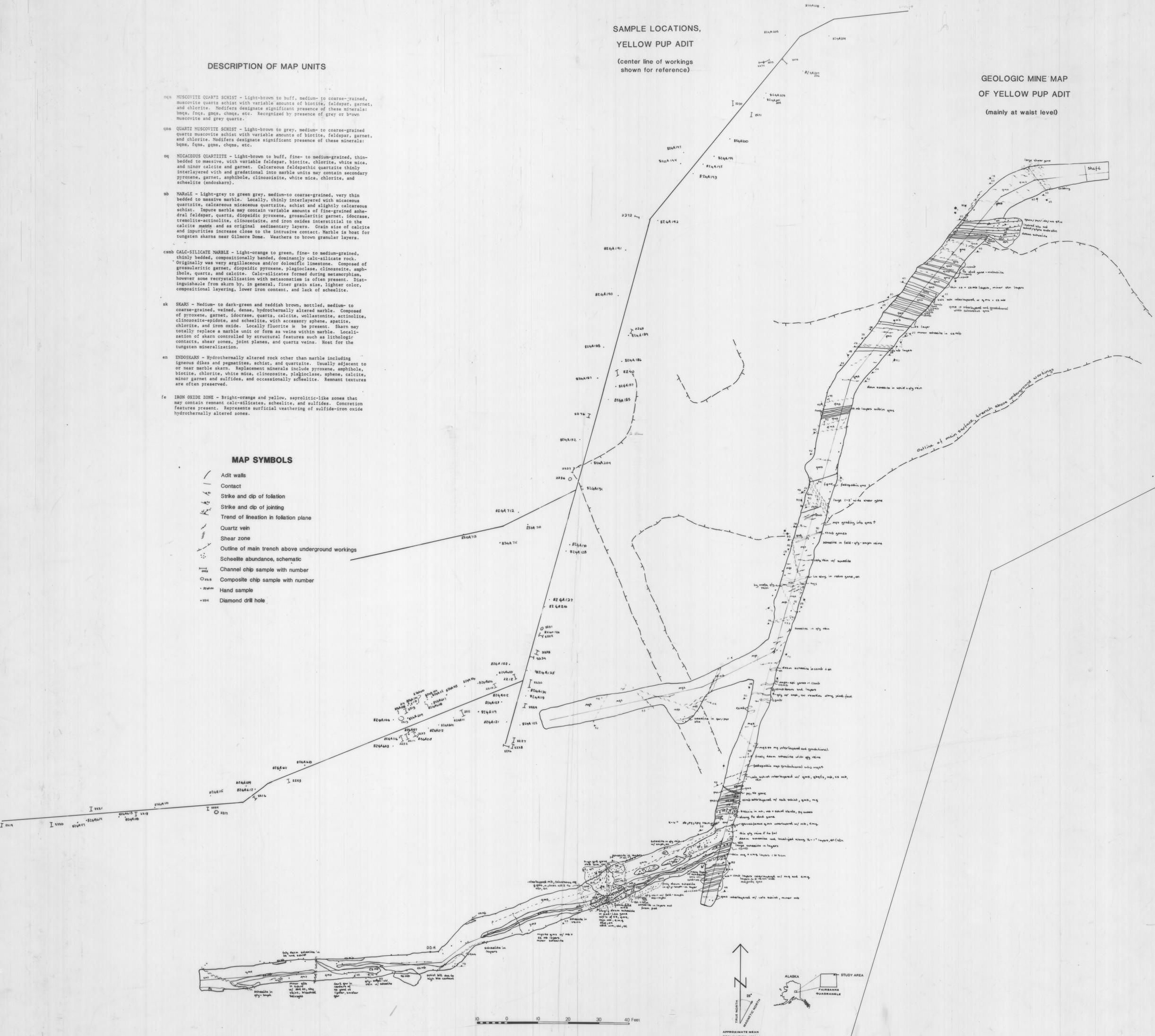
- mqc MUSCOVITE QUARTZ SCHIST - Light-brown to buff, medium- to coarse-grained, muscovite quartz schist with variable amounts of biotite, feldspar, garnet, and chlorite. Modifiers designate significant presence of these minerals: hqms, fqms, gqms, cqms, etc. Recognized by presence of grey or brown muscovite and grey quartz.
- qms QUARTZ MUSCOVITE SCHIST - Light-brown to grey, medium- to coarse-grained quartz muscovite schist with variable amounts of biotite, feldspar, garnet, and chlorite. Modifiers designate significant presence of these minerals: hqms, fqms, gqms, cqms, etc.
- mq MICACEOUS QUARTZITE - Light-brown to buff, fine- to medium-grained, thin-bedded to massive, with variable feldspar, biotite, chlorite, white mica, and minor calcite and garnet. Calcareous micaceous quartzite thinly interlayered with and gradational into marble units may contain secondary pyroxene, garnet, amphibole, clinzoisite, white mica, chlorite, and scheelite (endoskarn).
- mb MARBLE - Light-grey to green grey, medium- to coarse-grained, very thin bedded to massive marble. Locally, thinly interlayered with micaceous quartzite, calcareous micaceous quartzite, schist and slightly calcareous schist. Impure marble may contain variable amounts of fine-grained anhedral feldspar, quartz, diopside pyroxene, grossularitic garnet, idocrase, tremolite-actinolite, clinzoisite, and iron oxides interstitial to the calcite matrix and as original sedimentary layers. Grain size of calcite and impurities increase close to the intrusive contact. Marble is host for tungsten skarns near Gilmore Dome. Weathers to brown granular layers.
- cmb CALC-SILICATE MARBLE - Light-orange to green, fine- to medium-grained, thinly bedded, compositionally banded, dominantly calc-silicate rock. Originally was very argillaceous and/or dolomitic limestone. Composed of grossularitic garnet, diopside pyroxene, plagioclase, clinzoisite, amphibole, quartz, and calcite. Calc-silicates formed during metamorphism, however some recrystallization with metamorphism is often present. Distinguishable from skarn by, in general, finer grain size, lighter color, compositional layering, lower iron content, and lack of scheelite.
- sk SKARN - Medium- to dark-green and reddish brown, mottled, medium- to coarse-grained, veined, dense, hydrothermally altered marble. Composed of pyroxene, garnet, idocrase, quartz, calcite, wollastonite, actinolite, clinzoisite-epidote, and scheelite, with accessory sphene, apatite, chlorite, and iron oxide. Locally fluorite is present. Skarn may totally replace a marble unit or form as veins within marble. Localization of skarn controlled by structural features such as lithologic contacts, shear zones, joint planes, and quartz veins. Host for the tungsten mineralization.
- en ENDOSKARN - Hydrothermally altered rock other than marble including igneous dikes and pegmatites, schist, and quartzite. Usually adjacent to or near marble skarn. Replacement minerals include pyroxene, amphibole, biotite, chlorite, white mica, clinzoisite, plagioclase, sphene, calcite, minor garnet and sulfides, and occasionally scheelite. Remnant textures are often preserved.
- fe IRON OXIDE ZONE - Bright-orange and yellow, saprolitic-like zones that may contain remnant calc-silicates, scheelite, and sulfides. Concretion features present. Represents surficial weathering of sulfide-iron oxide hydrothermally altered zones.

MAP SYMBOLS

- Adit walls
- Contact
- Strike and dip of foliation
- Strike and dip of jointing
- Trend of lineation in foliation plane
- Quartz vein
- Shear zone
- Outline of main trench above underground workings
- Scheelite abundance, schematic
- Channel chip sample with number
- Composite chip sample with number
- Hand sample
- Diamond drill hole

SAMPLE LOCATIONS,
YELLOW PUP ADIT
(center line of workings
shown for reference)

GEOLOGIC MINE MAP
OF YELLOW PUP ADIT
(mainly at waist level)



YELLOW PUP ADIT, GILMORE DOME, FAIRBANKS MINING DISTRICT

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1985

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