



major strand of quartz thinning southward and gradually changes to chalcodony without structural discontinuity.

Zone of abundant stringers of quartz and chalcedony. To the northeast and southwest the quartz stringers die out and the chalcedony corresponding increases.

Quartz-pyrite core of vein.

Coarse-grained milky quartz veins containing
massive brecciated pyrite cemented by quartz.
Both quartz and pyrite are cut by late stringers
of chalcodanite. Vein contains many thin veins
and nodules of sericitic wall rock.

Outcrop consists of loose aligned blocks of quartz vein 1 to 2 feet wide enclosed in sericitic wall rock. The wall rock contains many stringers of chalcedony. To the northeast the amount of quartz diminishes and the amount of chalcedony increases.

Chalcedonic and of
them - no milky quartz.

Tiny amount of milky quartz
in chalcodony.

entirely
chalcedony -
no milky quartz



EXPLANATION

Sericitic rock; represents quartz monzonite in which orthoclase feldspars have been altered to sericite. Outer limits shown by line

Argillie rock; quartz monzonite in which plagioclase has been altered to clay. Outer limit not determined

Silicified rock; represents slight to moderate silicification by microcrystalline quartz or chalcedony.

Chalcedony very showy with dashed where poorly exposed. Represents almost complete solidification by chalcedony and intercrystalline quartz.

Chalcedony stringers; represents intense silicification by chalcedony and microcrystalline quartz along tight discontinuous fissures; also stringers filling fractures in quartz veins.

Quartz-pyrite vein; represents sericitic rock almost completely replaced by quartz and pyrite; showing dip

Milky quartz, with or without pyrite, in stringers or small masses; represents silicification of sericitic rock by milky quartz.

Shaft

Triangulation station

Figure 4 Relations of Chalcedony and Quartz
in Veins at Locality 176

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