(Dprmz) (30+/- m)

Figure 12. Wall of the marble quarry SW side of Saganawamps Hill showing nearly

the full 8-meter thickness of the lower marble member of the Saganawamps Section

(Sslm). Multiple packages of white albite-quartz layers can be traced along much of

the hill's adjacent outcrops. The impure marble appears grayish from the presence of

calc-silicate minerals such as diopside, grossular, actinolite and phlogopite. At lower

right is a cavity excavated by the tungsten miners in search of the ferberite-rich layer

at the top of the underlying amphibolite. The mill complex was located opposite this

approximately 15 m wide view. (H. Moritz photo).

thicknesses not to scale

amphibolite marble

migmatite

different parts of the study area are indicated at left.

🥫 pegmatite

qtz-rich pelitic schist

qtzite; feldspathic qtzite

High-temperature mineral veins

Generalized depiction of the interpreted stratigraphic succession for the rocks exposed

in the study area. Thicknesses for the 2 marble units were measured in the field, while

the ranges in thickness for the amphibolites were derived from map and cross-section

compilation. Most notable thickness variations are observed in the zone of boudinage.

High-temperature mineral veins collectively penetrate all the rock units, but any single

one may not so multiple short veins are shown. The portions of the column exposed in

gtz-rich, calc-metased

igure 49 (NE). This rock cut displays a contiguous vertical section from the base of The Straits Schist (DSt) into the upper marble (Ssum) and amphibolite (Ssua) members of the Saganawamps Section. This is the best exposure of the Ssum which is a quartz-rich, calcareous metasediment overlain by a 30 cm quartzite at this locality, best examined at the NE corner of the cut. (W. Devlin photo)

Figure 29. Boulder of Ssua showing the typical major features of the high-temperature mineral veins. From the center are: 1.) Core zone of massive milky quartz.

2.) Outer core zone of chalky white, very coarse-grained albite crystals (in others mostly topaz and fluorite). 3.) Muscovite wall zone (with some marialite, hard to see here). 4.) Altered amphibolite contact zone of fine-grained marialite and phlogopite. 5.) Unaltered amphibolite. At a minimum, a vein can consist of just the muscovite wall zone and the altered, host

amphibolite contact zone. These features distinguish these veins from the many

granitic pegmatites, which do not show them. (H. Moritz photo).

Figure 27. Excellent exposure of about 1 m wide high-temperature mineral vein

would have looked like. (H. Moritz photo.)

oriented N22°W, 74°SW cross-cutting amphibolite foliation oriented N65°W,74°E.

Located outside the study area behind 41 Monroe Turnpike (Edge Fitness) west of

Route 111. This vein is mostly quartz with albite, chlorophane, and muscovite along

the contact and is similar to what the vein in the mined out Champion Lode in the park

Figure 18. Ductile deformation in Sslm marble situated in the neck region between

two very large amphibolite boudins. Location is along the contact of Sslm and

scale. (H. Moritz photo).

Ssla on the east side of Saganawamps Hill. Hammer head in moss at bottom for