

0413

Mines Dept hole MCH-1 (that I'm sure you know more about than me) in the interval 407-494m, where evolved andesites to dacites with Ti/Zr from 11-14 overlie more andesitic lavas with Ti/Zr from 16-18. Is correlation with this level of MCH-1 reasonable?

**SAMPLE NUMBER: 431597**

**SUMMARY:**

This is a vesicular aphyric formerly glassy andesite lava almost identical to the previous sample.

**HAND SPECIMEN:**

This is a pale grey weakly vesicular dacitic lava with a stockwork of fractures highlighted by dark chlorite and quartz.

**THIN SECTION:**

This sample is seen in thin section to be a vesicular aphyric andesite lava very similar texturally to the previous lava except that this rock contains even fewer sericitized plagioclase phenocrysts, and no augite phenocrysts.

The groundmass of this sample contains around 10 modal% of rounded to ovoid vesicles filled by polycrystalline quartz and minor pale green chlorite. It was probably glassy to vitrophyric, with small totally sericitized plagioclase laths set in modally dominant glass. The glass has recrystallized to a medium-grained intergrowth of quartz and minor sericitized albite, with common sericite pervading the matrix as a weak mesh, and relatively abundant interstitial chlorite and tiny granular Fe oxide grains. Quartz-chlorite veinlets cut the sample, and some of the thicker of these have marginal zones in which small idiomorphic pyrite grains have crystallized.

This is definitely an andesitic lava essentially identical to the previously described sample, with the same implications. I would say that the Ti/Zr value would have to be around 16-17.