

- #431487 529.1m Green pyrite altered weakly vesicular Basalt lava breccia with calcite infill of vesicles. Ti:3550ppm, Zr:140ppm & Cr:877ppm
- #431488 532.3m Green-grey siliceous massive Dacite lava with minor quartz/calcite veining and recrystallised aggregates of chlorite and pyrite. Ti:1850ppm, Zr:150ppm & Cr:37ppm
- #431489 536.0m Green sheared silica/pyrite altered weakly sheared Basalt lava with calcite infill of remnant vesicles. Ti:2700ppm, Zr:120ppm & Cr:561ppm
- #431500 541.6m Grey siliceous dacite lava breccia with abundant aggregates of pyrite/minor chlorite, minor calcite veining and waxy green sericite on fracture surfaces. Ti:2200ppm, Zr:200ppm & Cr:89ppm
- #431548 556.2m Green-grey silica/chlorite altered massive Dacite lava. Ti:2200ppm, Zr:180ppm & Cr:28ppm
- #431549 577.7m Green-grey silica/chlorite/pyrite altered massive silicic Andesite lava with fine chlorite stockworks. Ti:2900ppm, Zr:160ppm & Cr:30ppm

NB: Nowhere is the problem of determining whether samples are Dacites or silicic Andesites more well illustrated than between samples #431548 and #431549. There appears to be little textural difference between the two samples and on the strength of what I have seen elsewhere in the Que/Hellyer Volcanics, especially in DDH MAC-25 where we had similar problems, I would have said both were chlorite altered siliceous dacite lavas. But then considering the Ti/Zr ratios of 12.2 and 18.1 for samples #431548 and #431549 respectively the assumption would be that they are in fact different lithologies. Thin sections may enlighten me to something I haven't seen in the hand specimen. It is also worth noting that there appears to be no lithological contact or fault between the two samples, only a slight gradational change in the intensity of chlorite alteration. It is possible we are seeing some sort of fractionation?

- #431597 584.5m Green silica/chlorite/pyrite altered weakly vesicular? Basalt lava with moderate calcite/chlorite stockworks.

NB: Sample #431579 is one of these samples which I have some difficulty in identifying. It is texturally similar to some of the rocks which I am sure are Dacites and have a low Ti/Zr ratio in the range of 12-14 with low Cr of around 20-35. It does however, appear slightly vesicular? and contains abundant chloritised feldspars.

- #431550 588.5m Green weakly sheared silica/sericite altered Dacite lava with minor chlorite veining. Ti:3250ppm, Zr:230ppm & Cr:129ppm
- #431551 594.0m Green silicic Andesite? lava with minor aggregates of recrystallised pyrite and