

## Slide Based Collections (Thin Sections)

Here is some back ground on part of the collection that we are working on (Thin Section)

Over the past decades Geoscience Australia has collected or been given a large number of rock samples.

These samples come from many different places both within Australia and round the world (including a considerable number from Antarctic)

Once acquired the sample will have any one of a number of things done to it, from chemical analysis to dating. One of those things is the creation of Thin Sections (TS).



Figure 2 - Thin Section of Rock Sample (Sample No. 1551879)



Figure 1 - Rock Sample (Sample No. 1551879)

Thin sections allow the geologist to examine a specimen under a microscope to look at the characteristics of the rock such as structure.

In times past those doing research, whether academic or for exploration purposes, would either borrow slides or come to the slide collection to view the slides in place. (At times Geoscience Australia may have descriptive information for a slide however not all slides were described. If held this descriptive information could also be provided to the researcher).

## Modern Technology

With the advent of the internet we can now provide a lot of this information electronically without the need to subject the delicate glass slides to the rigours of travel.

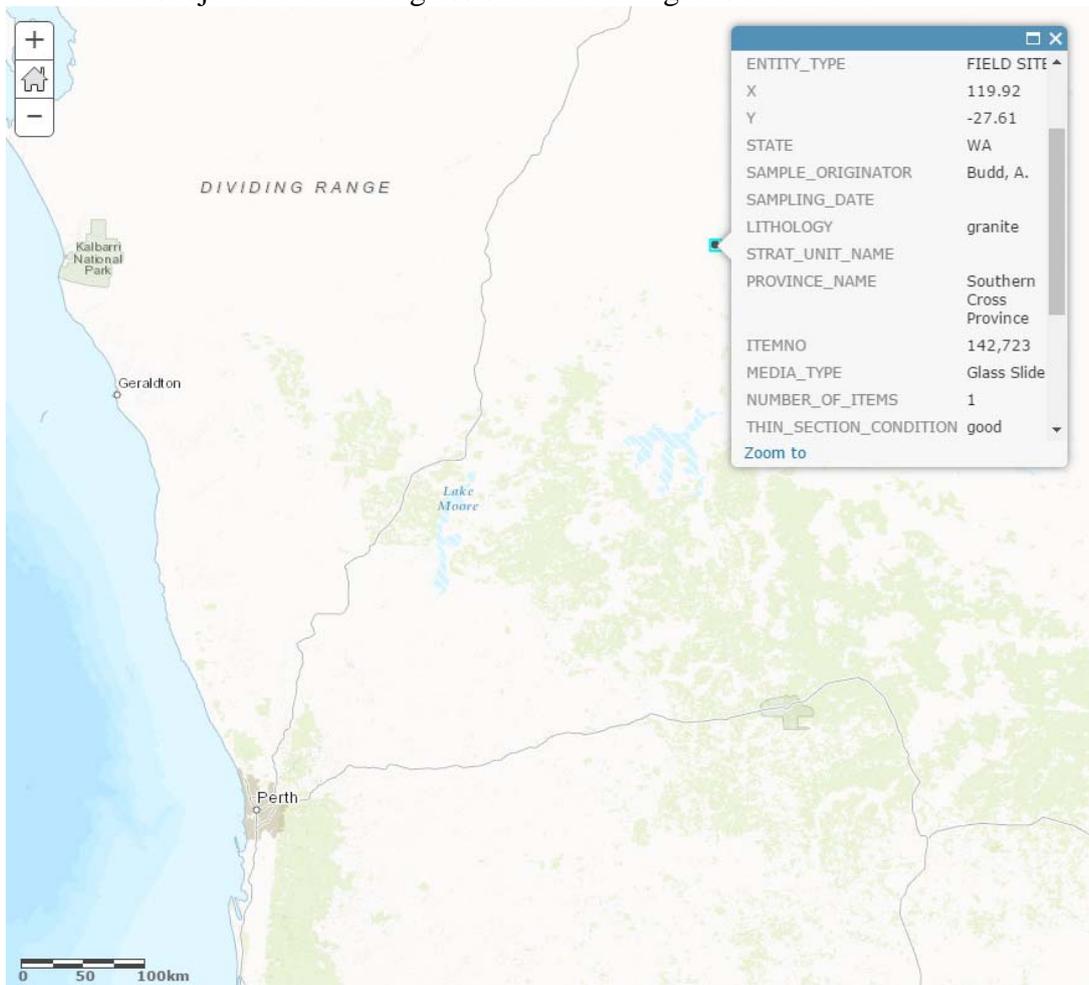


Figure 3 - Map showing the sample site for Sample (Sample No. 1551879)

Additionally, with advances in digital photograph we can potentially allow the researcher to review the actual slide from their office.

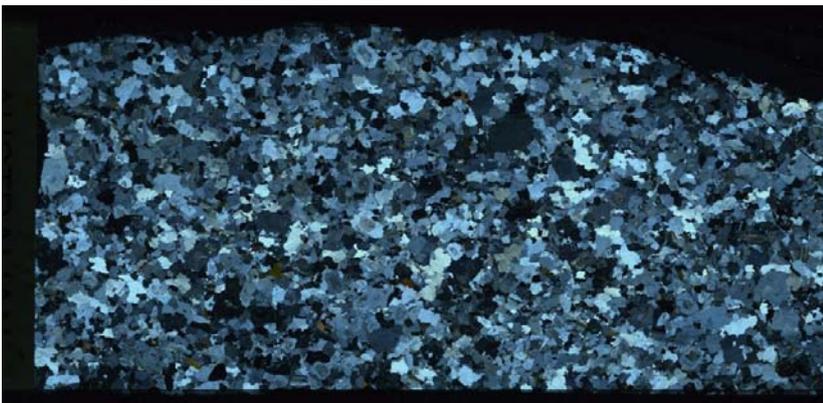


Figure 4 - Slide (Sample No. 1551879) – Cross Polarised Light

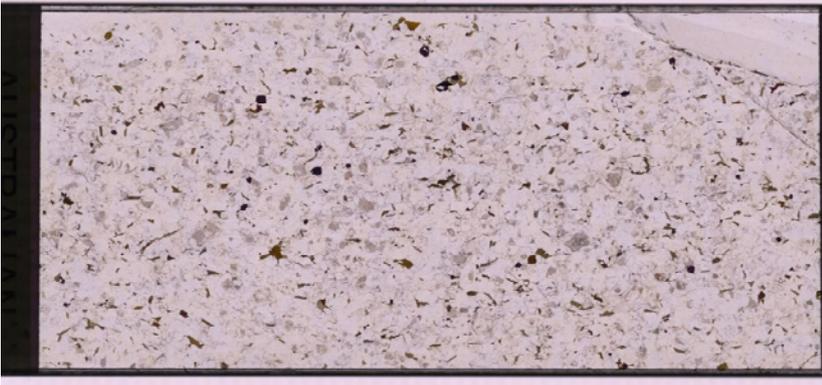


Figure 5 - Thin Section Slide (Sample No. 1551879) - standard light

Figure 4 and Figure 5 are the same thin section slide as depicted in Figure 2 which is taken from the rock sample contained in Figure 1. Figure 3 shows the locality information for the slide.

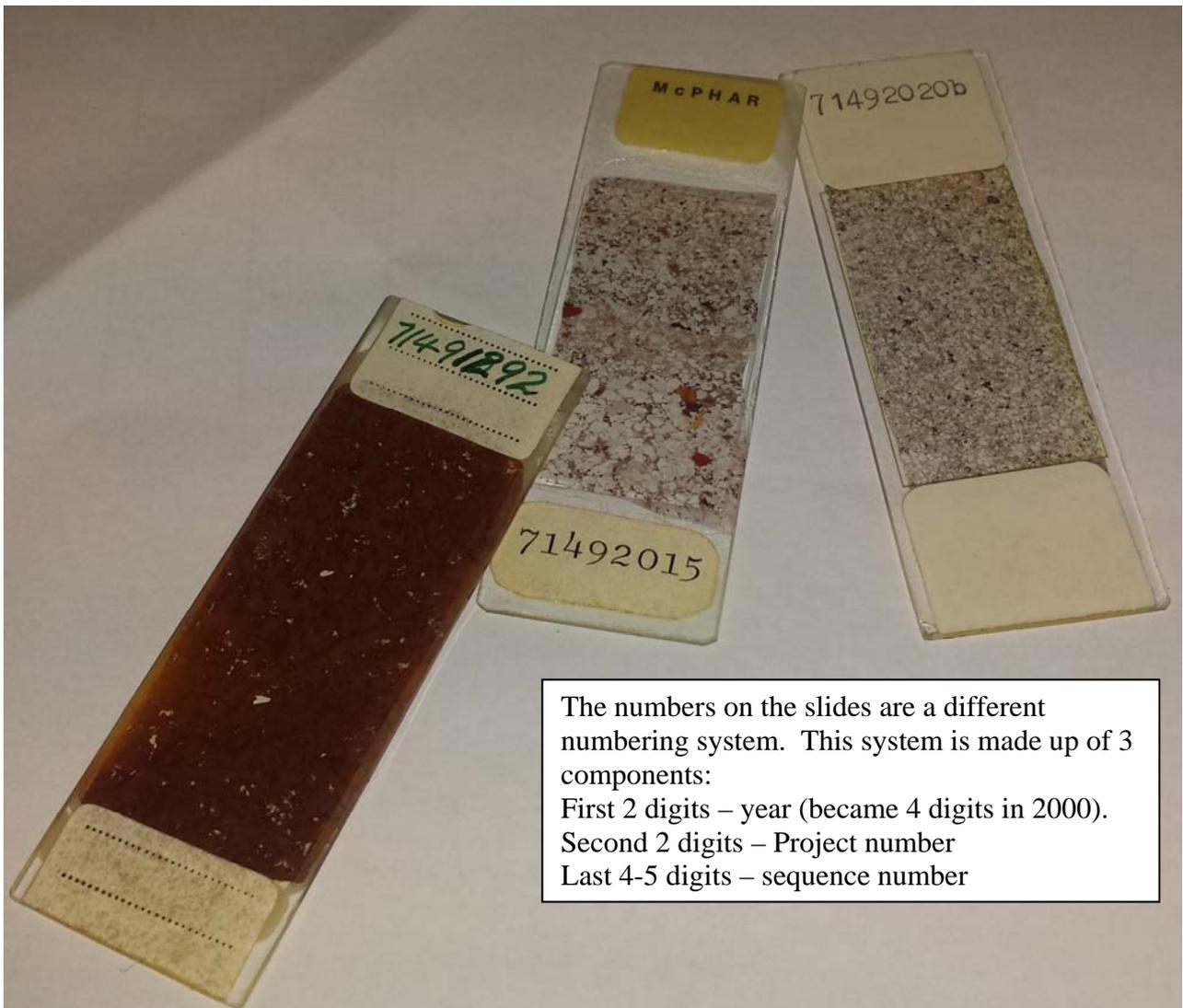


Figure 6 - Miscellaneous Thin Section Slides