

The minor oxide fraction includes sparse grains of an isotopic red-brown spinel, some hematite - rich material and very rare opaque oxides, which are possibly magnetite since they are not at all converted to leucoxene or sphene. No other oxides are present.

Sample No: 44936

Thin Section This sample is fairly similar to the previous sample 44907. It appears to be unsorted and contains material ranging in size up to 8mm across. Again it carries a high proportion of lithic clasts and fragments with shapes ranging from subrounded to rather elongate where this material is foliated. The lithic fraction accounts for roughly 65% of the sample, the silicates comprise a further 30% and approximately 5% of the sample is composed of oxides. The very coarse lithic debris appears to have been eliminated from the thin section.

The lithic fraction contains well foliated sericite-rich carbonaceous siltstone and fine grained quartz arenite as well as fine grained quartzite, sericite schist, and deformed chlorite quartz rock in which the quartz exhibits strong recrystallisation and zones of strain shadows.

The crystal fraction comprises mostly irregular shaped quartz grains many of which exhibit strain shadows and many that do not. Other silicates include rare pale green clinopyroxene grains, partly degraded and red-brown oxide-stained micas, very rare plagioclase and zircon.

The oxides constitute rather less than 5% of the sample represented in the thin section and include mainly zoned concretionary aggregate of red-brown limonitic oxides with rare elongate to irregular shaped opaque oxides that are non-magnetic and thus probably are ilmenite rather than magnetite. Several of the sparse subrounded to rather irregular shaped red-brown oxidised grains retain central cores of sulphides. There is no cassiterite present in the sample.