

Sample: ISC47115; Location: Sidewall Core 59, 3688 m

Rock Name:

Compact lithic sandstone

Thin Section:

This sample has been extremely badly damaged during collection of the sidewall core and a detailed description will not be attempted. The rock appears to contain more than 20% of lithic fragments and it seems likely that the rock is similar in many respects to others described in this collection. There is evidence of pressure solution on some of the quartz grains and the rock contains readily identifiable grains of chert. Amongst the finer grained material there is clearly some carbonate which has partly replaced some of the clay in the lithic fragments and partly formed irregular fine-grained monomineralic patches. Authigenic kaolinite was identified but it is thought that this mineral and the carbonate are neither as significant in reducing the porosity as the deformation of the lithic fragments and modifications to the original quartz grains.