

Sample: 9427' : TS C7861

Rock Name:

Argillaceous sandstone

Thin Section:

An optical estimate of the constituents gives the following:

	<u>%</u>
Quartz	80
Chert fragments	Trace
Feldspar	1- 2
Mica	1
Carbonate	Trace -1
Opagues and semi-opagues	1
Matrix	5-10
Zircon	Trace
Tourmaline	Trace
Glauconite	Trace
Voids	7-10

This medium-grained sandstone has a similar mineralogical composition and has undergone the extreme compaction noted in most samples in this collection.

Generally the sample is less 'clean' than 8358' but percolating solutions have been equally effective in dissolving silica and forming stylolitic features. Despite the abundance of matrix and the extensive compaction and silica dissolution the rock contains 7-10% of pore space. The voids are commonly 0.3 mm across but do not appear to be interconnected over large distances.

Some voids are partially bounded by rational crystal faces of authigenic quartz but many appear to be voids within the matrix and rimmed with clay. The distribution of voids does not appear to be related to that of the stylolites.