

Both mica and clay (and some iron oxide/hydroxide) are found in the many small microstylolites which are a feature of the rock's texture. Kaolinite/dickite occurs in 'pools' of late-crystallised material with a random, decussate texture; some large, curved plates of this mineral are also sparsely distributed in the rock.

Small clots of glauconite have a finely-granular texture.

Most of the carbonate is brown and is present as open clusters of small granules but some large plates of clear carbonate can be seen also. Some round brown bodies of carbonate (up to 0.15 mm across) may be after fossils - some have outgrowths of new, clear carbonate.

In summary, this is a very fine-grained sandstone which has been lithified by solution of quartz and deformation of matrix. Authigenesis has contributed little to the sealing of the rock's original pores.

Sample: 9415' : T S C7865

Rock Name:

Medium-grained sandstone

Thin Section:

An optical estimate of the constituents gives the following:

	<u>%</u>
Quartz	85-90
Argillaceous lithic material	7-10
Carbonate	1
Mica	1
Zircon	Rare
?Chert	Trace
Kaolinite/dickite	Trace
Tourmaline	Trace
Opagues and semi-opagues	Trace
Voids	2- 3