

	<u>%</u>
Quartz	65-70
Lithic fragments	15-20
Carbonate	1
Limonite and opaques	10-15
Chalcedony	Trace
Tourmaline	Trace
Kaolinite/dickite	Trace -1
Voids	1- 2

Fundamentally, this sample has a similar texture to that from 10062'. Similar fragmented and deformed quartz grains are present as well as (probably) some metamorphic quartzite grains. Where grains are in contact sutured (microstylolitic) boundaries are well-developed but, generally, the matrix is more abundant than in 10062' and grain contacts consequently less common.

The major difference between the two rocks is the presence of limonitic material, especially in and around a broad zone of stylolites in sample 10072. The band of limonite in stylolites is up to 1 mm wide and passes continuously across the thin section. Around the stylolites most intergranular material is turbid and brown-stained and contains granules of brown carbonate, (?siderite). For a distance of about 1 cm away from the stylolites brown carbonate and limonite are important features of the intergranular cement.

Patches of chalcedonic material are clearly authigenic deposits whereas some cherty and ?volcanic rock fragments appear to have been part of the detritus.

The rock differs from 10062' in its enhanced content of iron. Since limonitic material is associated with stylolites it seems likely that iron was deposited from percolating solutions into which silica was dissolved away. It is interesting that ferric-iron bearing limonite appears to be associated with ferrous carbonate, siderite.