

98090

(T.S. 32143)

MBD 45

209.0m

This rock is an incipiently sheared carbonaceous sericitic lithic sandstone.

The framework is poorly sorted in the silt to medium sand range, weakly bedded on a millimetric scale, and comprises around 60-70 % of the area sectioned. Sericitic pelite clasts are the main clastic component with shales (often carbonaceous), subordinate silty shale, and minor siltstone. Angular to subrounded quartz is a rather subordinate framework component. Accessories include muscovite flakes, partly degraded alkali feldspars, chert fragments, felsitic "rhyolite" clasts and a sparse heavy mineral assemblage (mainly brown tourmaline). The rock is only weakly volcanoclastic and has a definite intraformationally reworked character.

The matrix consists of weakly orientated sericite, pervasively stained with carbonaceous matter and rarely with fine pyrite of syngenetic character. A late (post-cleavage) phase of semi-plastic deformation is evident and is analogous to that in the carbonaceous pelites. Minor quartz-chlorite-sericite-sideritic carbonate veining appears more or less contemporaneous with the deformation.

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MBD 45

212.1m

This is a relatively weakly fractured and incipiently resheared carbonaceous psammopelite. The bulk of the area sectioned comprises a laminated quartzose argillaceous (sericitic) siltstone with frequent thin carbonaceous shaly partings. There are sporadic bands of silty fine sandstone and silty shale. General features are closely analogous to the carbonaceous psammopelites described above and require no special comment, except to note that bedding may be weakly graded and that clastic carbonaceous shale fragments are relatively conspicuous. The rock is very weakly pyritic (?syngenetic).

A weak slaty cleavage is mildly deformed and displaced by carbonaceous microfractures and sporadic irregular discontinuous veinlets (to 1.5 cm) of quartz, cloudy carbonate (ankeritic to sideritic) and chlorite. The veins include frequent patches of "coaly" carbonaceous matter and are weakly segmented by later microfractures and incipient movements along the slaty cleavage. Vein-quartz is weakly recrystallized and the coaly material partly granulated.

98092

(T.S. 32145)

MBD 45

203.1m

This is an essentially unaltered carbonaceous pelite, distinctly pyritic, weakly sheared and incipiently crenulated.