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(T.S. 34965)

1473.

This rock is a weakly altered orthoquartzite, consisting largely of overgrown and incipiently recrystallized detrital quartz with fine-grained muscovite flakes along the grain boundaries representing a minor argillaceous matrix component.

The relict framework is moderately to well sorted in the fine to medium sand range. Apart from quartz, clastic components include rare chert fragments and fairly conspicuous detrital zircon (with subordinate opaques) distributed in contorted "placers", thus reflecting a phase of slumping. Muscovite is partly concentrated into thin lenses representing crude shaly partings.

This rock includes rare nebulous patches of apatite ranging up to a few millimetres diameter. These are poikilitic and appear to represent recrystallized primary (or diagenetic) colloform nodules. The phosphate is weakly fluorescent brown in both short and long wave UV light.

A 3.5 mm wide quartz vein transects the area sectioned. This feature includes accessory muscovite and traces of pale biotite (partly chloritised). In marginal zones of the host rock, the accessory matrix muscovite is replaced by biotite. Irregular clots of biotite, with rare associated pyrite subhedra have developed elsewhere and may represent a replacement of minor accessory carbonate cement.

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