

7438-7442 Sandstone: grey white to buff, coarse grained to granular, as above, becoming gradually coarser towards base of section with an increase in percentage of fine pebbles. Increase in grain size accompanied by presence of white clay grains up to 2 mm pseudomorphous after euhedral felspar. Porosity good, permeability fair, no odour, taste or fluorescence.

7442-7450 Shale: medium grey, silty, very fine to coarsely sandy and conglomeratic, micaceous with abundant white clay grains up to 3 mm across, pseudomorphous after euhedral felspar. Sparsely carbonaceous with trace carbonised plant debris.

This rock is very poorly sorted and obviously produced by intermixing of lithologies during slumping.

7450-7450'3" Fine pebble conglomerate - consisting of sub angular to rounded pebbles up to 1 cm across set in a very poorly sorted, light brown, argillaceous, silty, fine to coarsely sandy, micaceous and sparsely carbonaceous matrix. Abundant accessory tourmaline. Porosity good, permeability fair, no odour, taste or fluorescence.

Detrital Pebbles

Quartz (50%): sub angular to rounded grains, many composite grains of quartz and quartz felspar.

Felspar (40%): euhedral to sub hedral grains up to 5 mm across, completely replaced by kaolonite.

Remaining 10% pebbles made up of dark grey shale, acid to intermediate volcanics, and red haematite stained quartzite.

Volcanics, made up of a very fine grained quartz and felspar, the latter replaced by clay. Certain volcanic grains have a definite andesitic texture.

Tourmaline: dark reddish brown, occurring as sub angular grains of vaguely prismatic form up to 2 to 3 mm.

7450-3" - 52'6"

As for interval 7442-7450 with a rafted angular block 4 cm across, of finely banded shale and coarse grained to granular quartz sandstone.

7452'6" - 53' Sandstone: grey white to buff, coarse grained to granular, as above.

Core No. 12 7877-7892 Cut 15' Recovery 0'

Core No. 13 7903-7914 Cut 11' Recovery 5'

Contact metamorphosed thinly banded and laminated sequence of quartzite shale and sandstone.

Quartzite Light to dark grey to black, very fine grained, sparsely pyritic, dense, very hard. Certain bands of quartzite have the appearance of a silicified breccia. No trace of original grain boundaries.

Shale Dark grey to black, in part silty, carbonaceous, very finely sandy, dense, moderately hard, having a definite baked appearance.

Sandstone Light to dark grey, argillaceous, fine to very fine grained, cemented in part by secondary silica cement, developing as overgrowths of quartz grains. On many grains such overgrowths have developed euhedral crystal faces. Moderately hard, finely granular texture, porosity fair, permeability nil.

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BASEMENT
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