

Sample: 5200-5220' : TS C8584

Location:

Duroon-1

Hand Specimen:

Cuttings are of an overall grey-green or grey colour. Rare fragments are dull red. A few single grains of quartz are present. The cuttings appear to be generally fine-grained.

Thin Section:

The cuttings from this specimen include rocks of the following types:

(a) Amygdaloidal basalt

This rock contains amygdales filled with chlorite, granular "iddingsite" after olivine and aligned altered feldspar laths in a groundmass of feldspar, opaques and chlorite. Apart from the alignment of the plagioclase and a finer-grained groundmass, this rock is similar to sample A.

(b) Altered basalt

Basalt very similar to those described from elsewhere in the hole but more thoroughly altered to a blood red iddingsite and brownish-green ?bowlingite. Vestiges only, of feldspar remain.

(c) Contact metamorphic, altered quartz-mica-clay rocks.

These contain small grains of quartz (to 0.04 mm) with relict mica and opaques in a groundmass of clay and brown chlorite.

(d) Fine-grained brown rock of uncertain origin

This contains dispersed small quartz and opaque grains with ovoid pellets of orange clay in an almost submicroscopic groundmass, which contains mica and clay. This appears to have a sedimentary origin but may be fine-grained lava or contact rock.

(e) Chilled amygdaloidal lava

This contains abundant amygdales, rimmed with chalcedony and filled with chlorite/clay with relatively rare aligned altered feldspar laths and rare phenocrysts of biotite in a very fine-grained groundmass apparently composed of clay with opaques.