







Hole 399-U1309D-297R Section 3, Top of Section: 1418.38 m

Igneous Petrology: Top is continuation of the diabase unit until 31cm, returning to the olivine gabbro unit that contains an alteration vein.

Alteration:

Moderately altered fine-grained diabase and slightly altered Ol-bearing gabbro. The latter is cut by chlorite-amphibole veins with apparent normal sense of slip. The extent of alteration is highest in olivine, followed by clinopyroxene, and plagioclase which is least altered. At the contact with altered olivine, plagioclase is altered to chlorite. Mesh texture after olivine shows a systematic zonation from olivine in the mesh center to serpentine and clay minerals to amphibole and talc in the mesh rim. Two vein generations can be distinguished in the gabbro. The first generation consists of amphibole which is cut by a later generation of what appears to be zeolite.

Structural Geology: Diabase (30 cm) and isotropic olivine gabbro cut by dark green amphibole and chlorite veins. Younger, thin white zeolite veins are subhorizontal. Weak to moderate subhorizontal fractures overprint entire section M > V1 > V2 = B

























































































