

## Borehole measurements at the Unzen Volcano Drilling: some results and problems.

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The Unzen Volcano Scientific Drilling Project consists of a "conduit drilling" and a "flank drilling." Concerning the study of magma intrusion and degassing process, crustal stresses, petrophysical properties, and permeability of fractures must be evaluated by well logging and in-situ measurements in the borehole. From results in the Minami-Senbongi well (750 m deep) and the Onokoba well (900-m deep), stress state and the high temperature layer in shallow part were revealed by logging and in-situ experiments. For the "conduit

drilling," the effect of high temperatures, small diameters, inclination of borehole and fracture zone, etc. becomes a problem.