

## **Observations at vulcano-genetic fillings of joints and fissures at Thuringian Slate Mountains**

WOLFGANG BIEWALD

### **Abstract**

Beside the widespread and partly mapped eruptive dikes of Rotliegend vulcanic activities, vulcano-genetic fillings of joints and very small fissures of feeder channels are reported from Neoproterozoic and Lower Palaeozoic host rocks, underlain the Rotliegend vulcano-sedimentary stockwerk.

Two substantial and genetic different types of fillings can be distinguished:

1. Fillings of wide extended joints of a characteristic purple-red clayish silt, often laminated and rich of muscovite-illite. They are interpreted as injections of highly mobile and volatile-rich suspensions from the roof area of an andesitic magma reservoir.
2. Fillings of fractures and ac-joints, consisting of intrusive breccia, which partly resembles crumbled tuffs, and are often associated with brecciated quartz veins. The breccia is supposed to originate from a shocked phreatomagmatic reaction of an andesitic magma reservoir.