

Geology and Hydrogeology at the Rossdorf-Urnshäuser fault zone

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Abstract

The Rossdorf-Urnshäuser fault zone seems to have a great impact on the hydrogeological regime of the Plattendolomit (Leine-Karbonat) a carbonate formation in the underground of the southeastern Werra-Potash-district. The Plattendolomit is used for disposal of salty waste waters which were derived from the potash industry. The disposal of salty waste waters in Thuringia ended in 1968 whereas it still proceeds in Hesse.

The distribution of the waste brines followed the natural inclination of the primary geogene mineralized groundwaterbody. In parts the distribution is triggered by faults, e. g. by faults standing in connection to the Rossdorf-Urnshäuser fault zone.