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Geological Structures of Arima and Nanki-Shirahama Hot Springs

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Some hot springs having high temperature and high concentration of chemical components are well known at Arima, Kobe and Nanki-Shirahama, but no related to any volcanism. It is assumed that Arima and Nanki-Shirahama hot-springs are gushed out mainly with bubble of CO₂, with high content of ²²²Rn (Rn), ²²⁰Rn (Tn). And some elements of mantle are contained in spring-water.

It estimated that these spring water is rise up along the crushed zone of the active faults through the neck of igneous intrusion. The report is given these geological structure using the results of gravity, radioactivity, and CSA-MT surveys.

Keywords: Geophysical prospecting, Arima hot spring, Nanki-Shirahama hot spring, pass of H₂O fluid, fault, nrvk of acidic igneous intrusion