Japan Geoscience Union Meeting 2015

(May 24th - 28th at Makuhari, Chiba, Japan) ©2015. Japan Geoscience Union. All Rights Reserved.



SMP44-P04 会場:コンベンションホール

時間:5月25日18:15-19:30

超臨界地熱貯留層のナチュラル・アナログ Natural Analogue of Supercritical Geothermal Reservoir

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To understand the geological properties of a supercritical geothermal reservoir, we investigated a granite?porphyry system as a natural analog. Quartz veins, hydrothermal breccia veins, and glassy veins are present in Neogene granitoids, Tohoku Japan. The glassy veins formed at 500-550 C under lithostatic pressures, and then pressures dropped drastically. The solubility of silica also dropped, and the quartz veins formed under hydrostatic pressures. Connections between the lithostatic and hydrostatic

pressure regimes were key to the formation of the hydrothermal breccia veins, and the granite?porphyry system provides useful information for understanding supercritical geothermal reservoirs.

キーワード: 超臨界流体, 地熱貯留層, 花崗岩一斑岩システム Keywords: Supercritical fluid, Geothermal reservoir, Granite-Porphyry system