

Thermal Response Test Equipment Data

Fill-in Date: 10-2010

Country: Japan

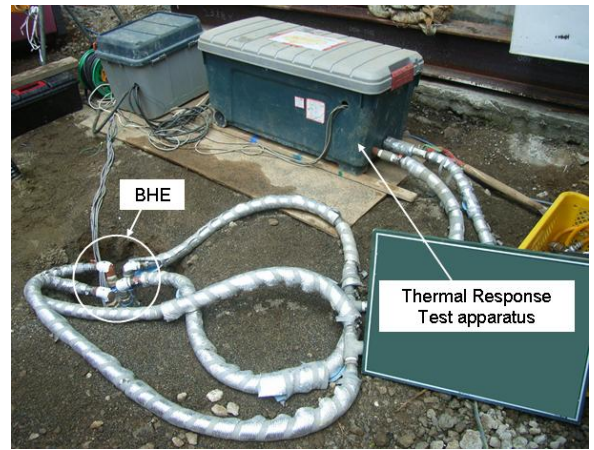
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GENERAL TRT DATA

Type: <i>Heat injection</i>	No TRTs: 1	Size, weight: 1000mm + 500mm + 500mm, 30kg
Aim: <i>Research</i>		Pump: <i>Flow rate 0 ~40 L/min</i>
Powered by: <i>Electricity</i>		Heater: <i>6.0(=3.0*2) kW(AC200V)</i>
Built on/in: <i>portable</i>		HP/Cooler: <i>Nothing</i>
<p style="text-align: center;">Principle outline</p>		Temperature measurements: - <i>Pt-100 sensor (Proof read in ±0.3°C)</i>
		Flow rate measurements: - <i>Electromagnetic flowmeter (Keyence)</i>
		Voltage stabilization: <i>No</i>
		Supply Power Monitoring: <i>No</i>
		GPS: <i>No</i>
		Remote Control of Operation: <i>No</i>
		Remote Data Collection: <i>No</i>
		Logger: <i>Keyence TR-V550, NR-1000</i>

TRT EXPERIENCE

Years of operation: 2001

Number of performed measurements: 26 *Research*

Typical borehole depths: 50 ~ 200 m

Applications: *BHE*

Typical collector type: *1U, 2U, type of Silica sand, Water, Concrete cement*

Typical fluid type: *Water or Antifreeze liquid*

Typical groundwater temperature: 10 ~ 20°C

Geographical area: *Tohoku area(Aomori, Akita, Iwate, Fukushima), Kanto area(Tokyo, Saitama)*

Analysis Method: *Line source, Hornor plot, History Matching*