Fugro

GEMS Conference San Antonio

November 2024

Fugro – who are we?

Whatever you're planning, building, or maintaining, we believe understanding the earth is key. At Fugro, we unlock its secrets in the form of Geo-data, which we apply to develop safter, more sustainable, and more efficient operations. It's how we help create a safe and liveable world – together.

Geothermal Testing

Geothermal Properties of the Ground

Used to characterise the subsurface to assess aquifers and ground water movement, and effects on installations including geothermal energy, cables and pipelines.

- Temperature Gradient
- Porosity and Permeability
- Fluid Flow Velocity
- Thermal Conductivity Testing

Geothermal Energy Testing

Specific test used to assess the heat exchange capabilities of a specific area for the design of the geothermal energy installation

- Characterisation of the ground for use as a Geothermal energy resource
- Thermal Conductivity
- Volumetric Heat Capacity
- Geothermal Loop Thermal Resistance

Geothermal properties of the ground

Fugro In- House Service

Wireline equipment available locally

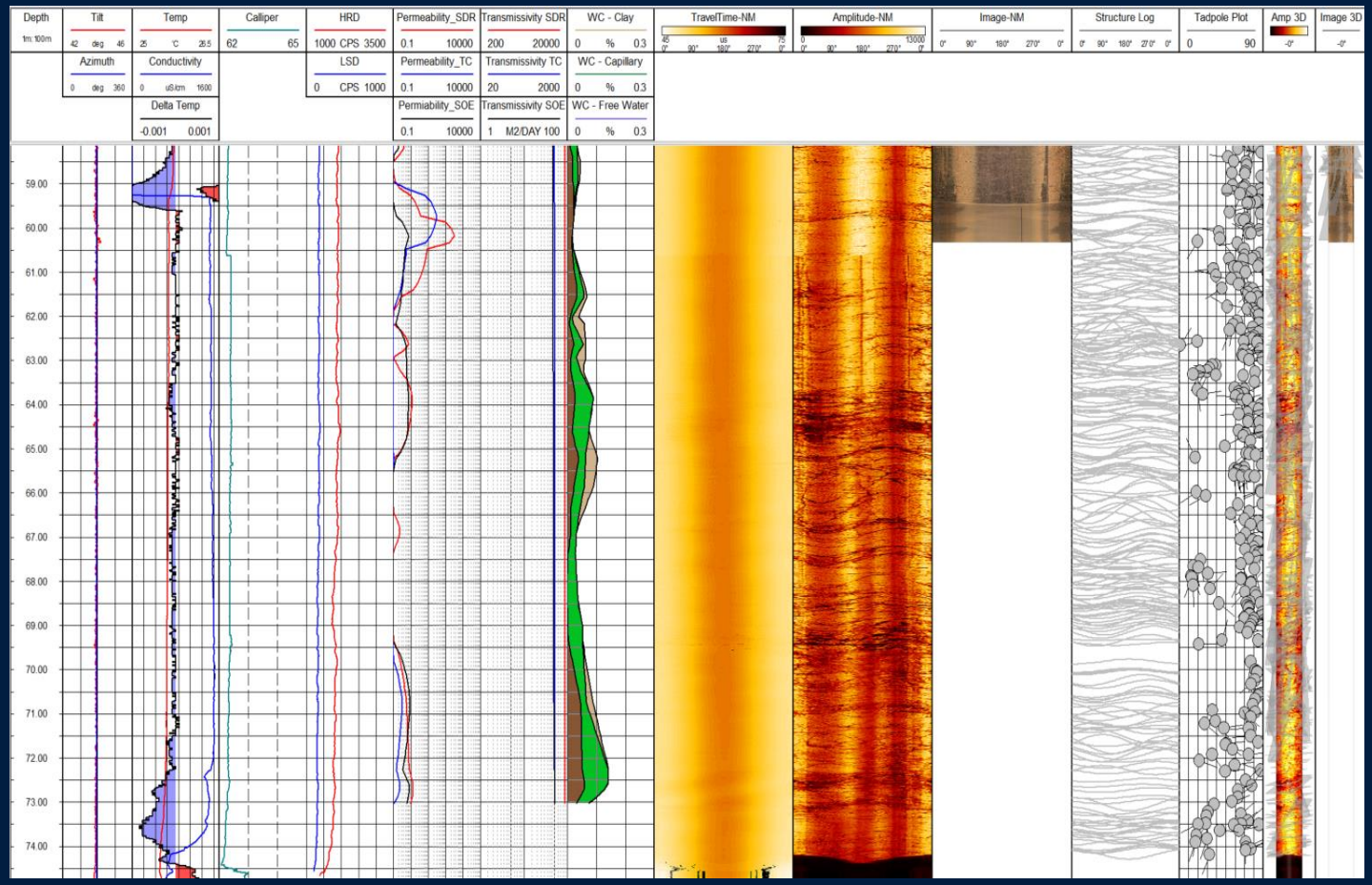
Depth capacity up to 1 km

Temperature Capacity 80 °C

Wireline equipment available in Fugro*

Depth Capacity up to 4 km

Temperature capacity to 140 °C



*Not all probes available on deeper system

Geothermal properties of the ground

Thermal conductivity testing performed in soil and rock

Based on site testing and core sample.

Soils can be tested in situ using a variety of probes in both drill holes and CPT

Rocks can be tested using core samples in lab conditions

FUGRO

Unlocking **Insights**
from **Geo-data**