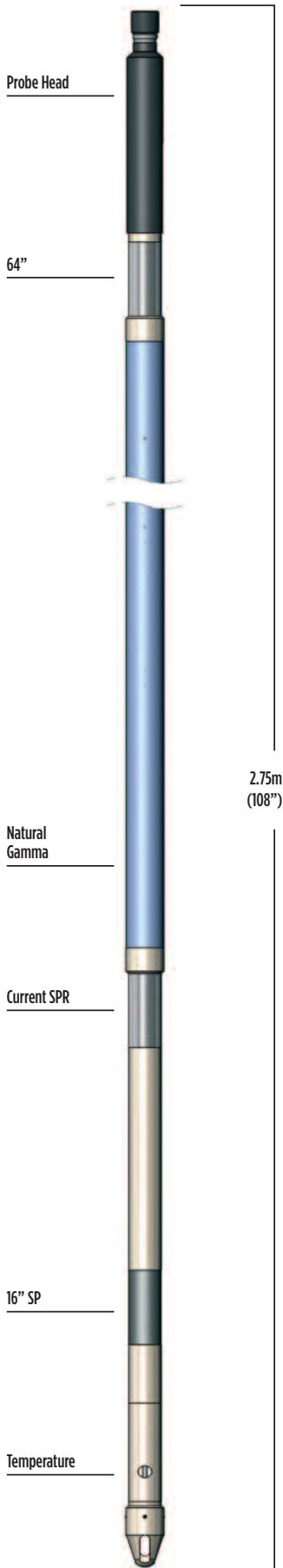


Electric Log



Electric Log Probe

The classic water-well combination probe combining shallow, medium and deep penetrating resistivity measurements with Self-Potential (SP).

Principle of Measurement:

A low-frequency bi-directional electric current from a source electrode on the probe returns through the formation to the cable armour above an insulated bridge. Potentials due to this current flow are measured on various sense electrodes on the probe with respect to a voltage reference 'fish' normally located at the surface. These measurements are converted to apparent formation resistivities within the probe and transmitted to the surface.

SPECIFICATION:

Features

- Digital down-hole measurement avoids errors due to cable effects
- Constant-power down-hole current source

Measurements

- 16" Normal resistivity
- 64" Normal resistivity
- Single-point resistance
- Self-Potential (SP)
- Natural-gamma
- Fluid Temperature
- Optional 8" and 32" Normal resistivity

Applications

- Water
- Determination of water quality
- Indication of permeable zones and porosity
- Minerals/Engineering
- Bed-boundary positions
- Strata correlation between boreholes
- Fracturing Indication

Operating Conditions

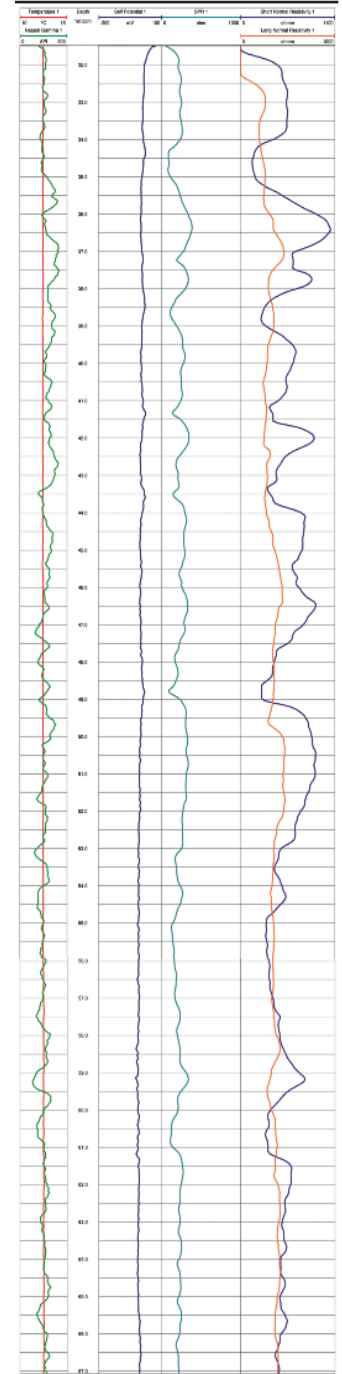
- Borehole type: open-hole, water-filled
- Recommended Logging Speed: 4m per min

Specifications

- Diameter: 45mm
- Length: 2.75m or 3.16m (with 8" and 32" option)
- Weight: 11kg
- Temperature: 0-70°C (extended ranges available)
- Max. pressure: 20MPa
- Resistivity range: 1 to 10,000 ohm-m

Part Numbers

- 1002072 Electric Log probe with natural gamma and temperature
- 1002111 - including 8" and 32" normal resistivity



Example of logging data