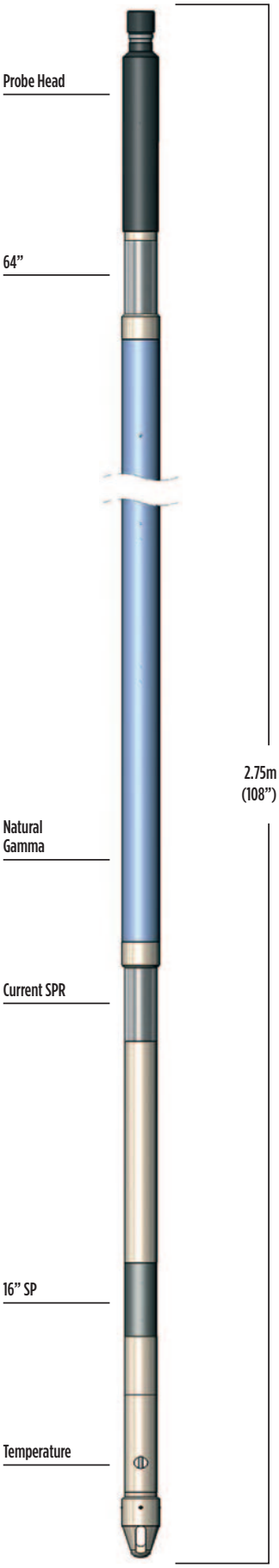
PROBES

ELECTRIC LOG

ROBERTSON GEO
Unlocking Your GeoData



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 bridle. 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

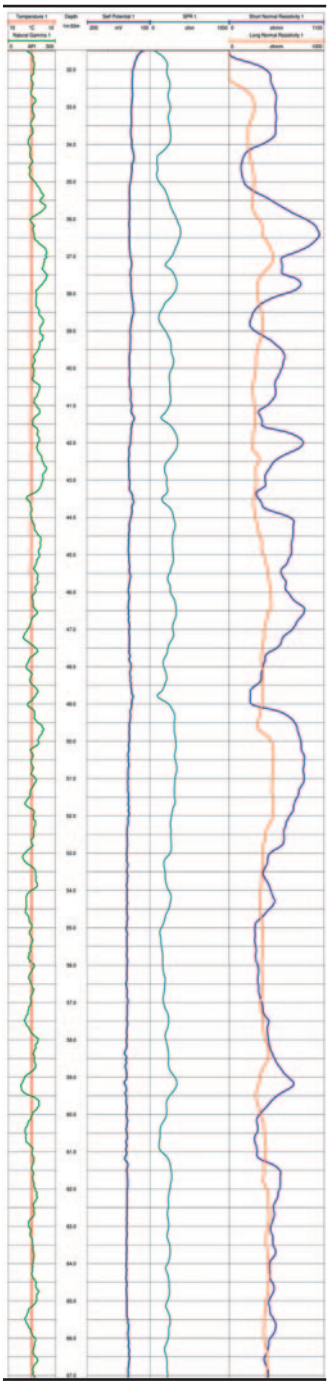
Borehole type:	open-hole, water-filled
Recommended Logging Speed:	4m per min

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

CLICK HERE
FOR ENQUIRY FORM