Dual Induction (GDI)

4.01m

(158")

The Dual Induction module provides conductivity logs with deep and medium depths of investigation to profile borehole fluid invasion into the formation.

The tool uses an 'array' technique where multiple sets of in-phase and out-of-phase receiver responses are processed and summed to emulate the vertical and radial responses of classic 6FF40 ILD and ILM logs. The tool may be combined with other measurements and is run at the base of the stack. The module includes a fast-response platinum resistance thermometer for measurement of external borehole temperature.

Principle of Measurement:

An oscillating high-frequency magnetic field created by a transmitter coil within the module induces an alternating electrical current within the surrounding conductive formation. This current, in turn, induces voltages within multiple receiver coils in the module proportional to formation conductivity. The transmitter-receiver spacing determines the depth of investigation of the measurements.

SPECIFICATION:

Drift over T° range:

Resistivity range:

Depth of investigation:

Part Numbers

1003947

1004134

Accessories: 1004133



<2 mS/m

Dual Induction module with temperature

Calibration loop

Fin stand-off (set of two)

0 to 2000hm-m

(Qualitative indication up to 2000ohm-m) ILD 150cm (60") ILM 75cm (30")



Example of logging data

Temperature

Coil Array

Dual Induction Module

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