



NORMAL RESISTIVITY + SP TOOL (ELOG)

Tool overview

This tool measures the resistivity of the material surrounding the borehole. Three logs are produced, Point Resistance (PR), 0.5m Normal (0.4m NR) and 1.6m Normal (1.6m NR), each having a different radius of investigation and resolution. The point resistance has the greatest resolution and least radius of investigation and the 1.6m Normal has the least resolution but greatest radius of investigation. The response of this log is a function of porosity, mineralogy and pore water quality.



Logging

conditions

4–9m/min

Free running

Minimum fluid
filled interval 20m
due to ref.
electrode/bridal
distance

Borehole

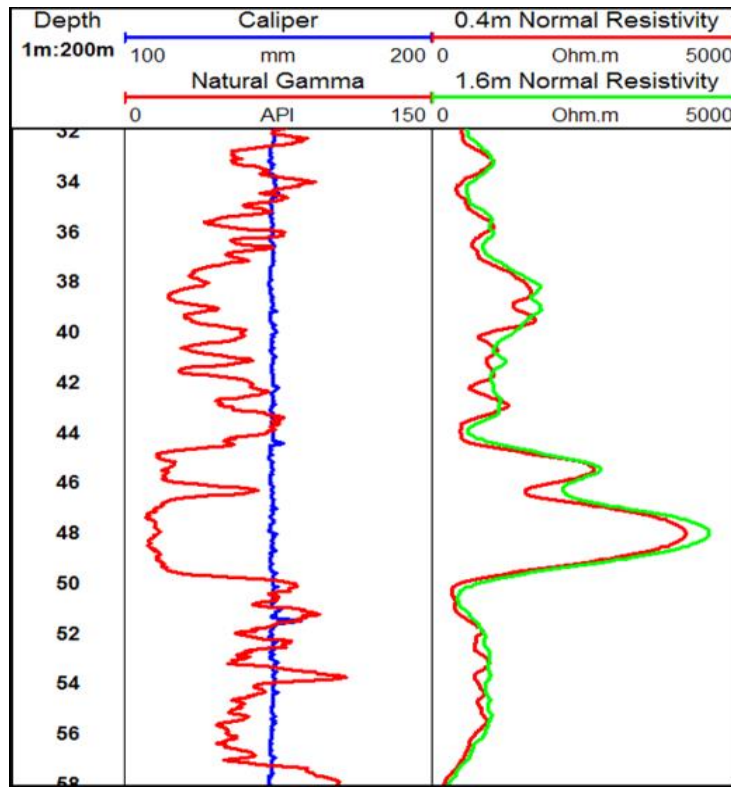
Conditions

Fluid filled

Unlined

Features and benefits

- In metal lined boreholes the resistivity can give qualitative information on the condition of the casing and may be used to identify areas of increased corrosion or encrustation.
- A Spontaneous Potential (SP) measurement can also be recorded. This measures the differences in the electrical potentials caused by electrochemical differences between the borehole fluid and the formation pore-fluid, mineralogy of the formation, lining material or electrokinetic effects of fluid flow.
- In metal lined holes the log may be used to locate intervals of active corrosion.



Normal Resistivity log

Specifications

Size	2270m x 42mm
Weight	8kg
Resistivity range	1-10,000Ohm.m
SP range	-2.5V-2.5V
Max.temperature	80°C
Max. pressure	20MPa

Why European Geophysical Services?

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