

Dual Induction Logging Tool (DILT)

The Dual Induction instrument is used to obtain formation conductivity measurements in low salinity or oil-based drilling fluid environments. Using transmitter-receiver coil pairs, it provides Deep and Medium resistivity measurements used for fluid saturation calculations.

DESCRIPTION

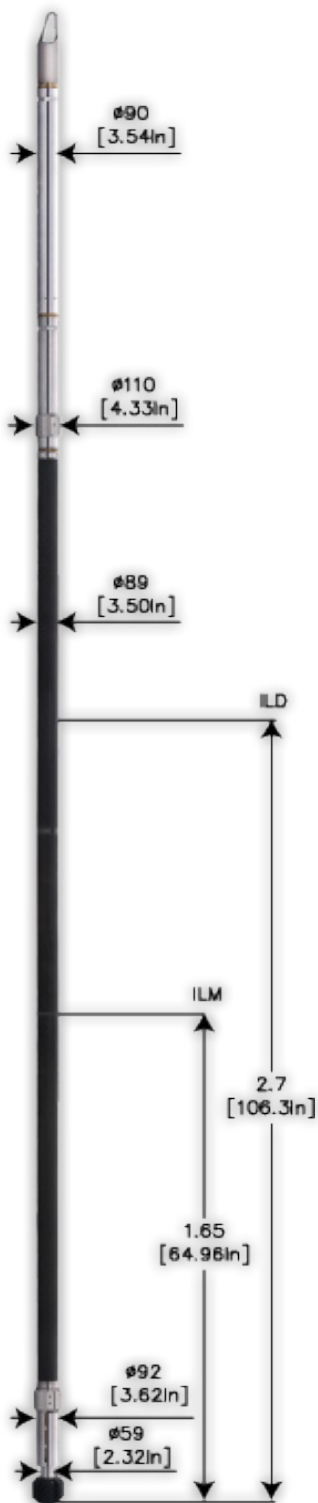
The DILT provides conductivity measurements at 2 different levels of investigation and resistivity values. This tool is designed to provide resistivity measurements necessary to estimate the effect of invasion, to obtain the true formation resistivity.

APPLICATIONS

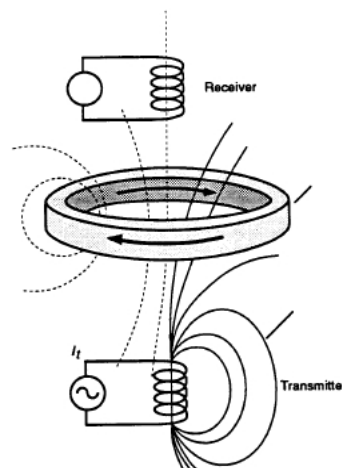
- Invasion profile determination
- Water saturation measurement
- Identification of fluid contacts

FEATURES

- Combinable with other Gallop tools
- Performs well in low salinity muds



DILT



DILT Measurement principle

SPECIFICATIONS

DILT - Dual Induction Logging Tool

General specifications

Maximum Pressure	20,305 PSI (140 Mpa)
Maximum Temperature	350 °F (175°C)
Maximum Hole Size	22.67 in. (575.81 mm)
Minimum Hole Size	4.76 in. (120.9 mm)
Diameter	3.62 in. (91.9 mm)
Length	19.67 ft. (5.99 m)
Weight	225 lbs (102 kg)
Max. Logging Speed	98 ft/min (29.87 m/min)

Borehole Conditions

Borehole Fluids	Any, except high salinity
Tool Position	Centralized or stand off

Hardware Features

Voltage	220 Vac, 50 Hz
Current	125 mA
Sampling Rate	10, 20, 40 samples / m selectable

Measurement

Principle	Electromagnetic Induction
Minimum	0.2 Ohmm
Maximum	2000 Ohmm
Vertical Resolution	24 in. (60.96 cm)
Depth of Investigation	Deep: 63 in. Medium: 31.5 in.
Accuracy	± 7 % (low resistivity below 200 Ohmm)
Primary Curves	RILD, ILM