



DUAL LATERAL LOGGING TOOL (DLLT)

Using an array of electrodes to focus the measuring current into the formation, the **Dual Laterolog** provides both Deep and Shallow formation resistivity measurements in conductive borehole environments. An SP reading is also recorded by the instrument.

The measurement is particularly suitable for high resistivity formations. Both deep and shallow readings allow for visual identification of permeable formations.

FEATURES

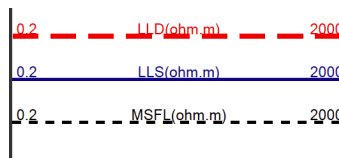
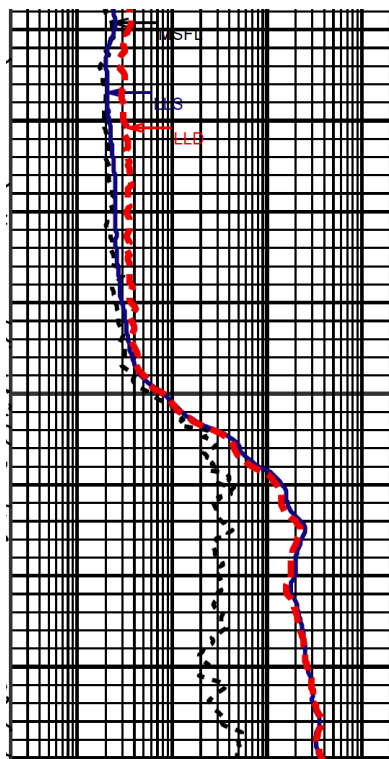
- Combinable with other Gallop tools
- Can distinguish formations bearing conductive fluids (including salt water and mud filtrate) from formations with non-conductive fluids (oil and gas)
- Spontaneous Potential (SP) reading included

APPLICATIONS

- Invasion Profile determination
- Water Saturation measurement
- Identification of fluid contacts



LOG EXAMPLE





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SPECIFICATIONS

	DLLT
GENERAL SPECS	
Maximum Pressure	20,000 PSI (140 MPa)
Maximum Temperature	350 °F (175°C)
Maximum Hole Size	22.7 in (575.8 mm)
Minimum Hole Size	4.8 in (120.9 mm)
Diameter	3-1/2 in (89.9 mm)
Length	20.9 ft (6.4 m)
Weight	320 lbs (145.1 kg)
Max. Logging Speed	100 ft/min (30 m/min)
BOREHOLE CONDITIONS	
Borehole Fluids	Highly conductive muds
Tool Position	Centralized
HARDWARE FEATURES	
Voltage	220 Vac, 50 Hz
Current	120 mA
Auxiliary Voltage	110 Vac
Auxiliary Current	700 mA
Sampling Rate	10, 20, 40 samples/m selectable
MEASUREMENT	
Principle	Focused Current Injection
Minimum	0.2 Ohmm
Maximum	40,000 Ohmm
Vertical Resolution	24 in
Depth of Investigation	Deep: 100 in (2,540 mm) - Shallow: 30 in (762 mm)
Accuracy	± 20% (0.2 Ohmm - 1 Ohmm), ±10% (2,000 Ohmm - 5,000 Ohmm), ±5% (1 Ohmm - 2,000 Ohmm)
Primary Curves	RLLD, RLLS
Secondary Curves	SP