

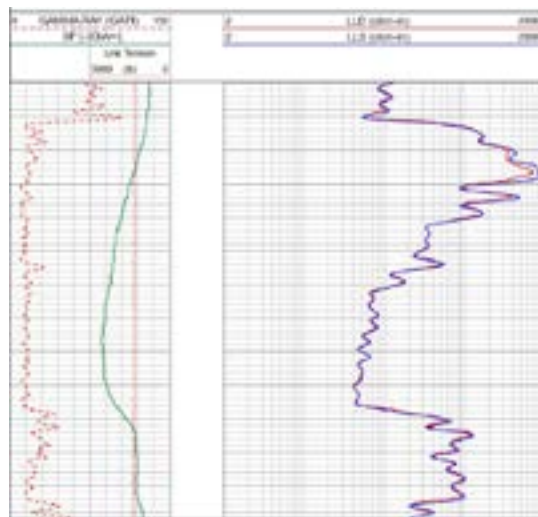


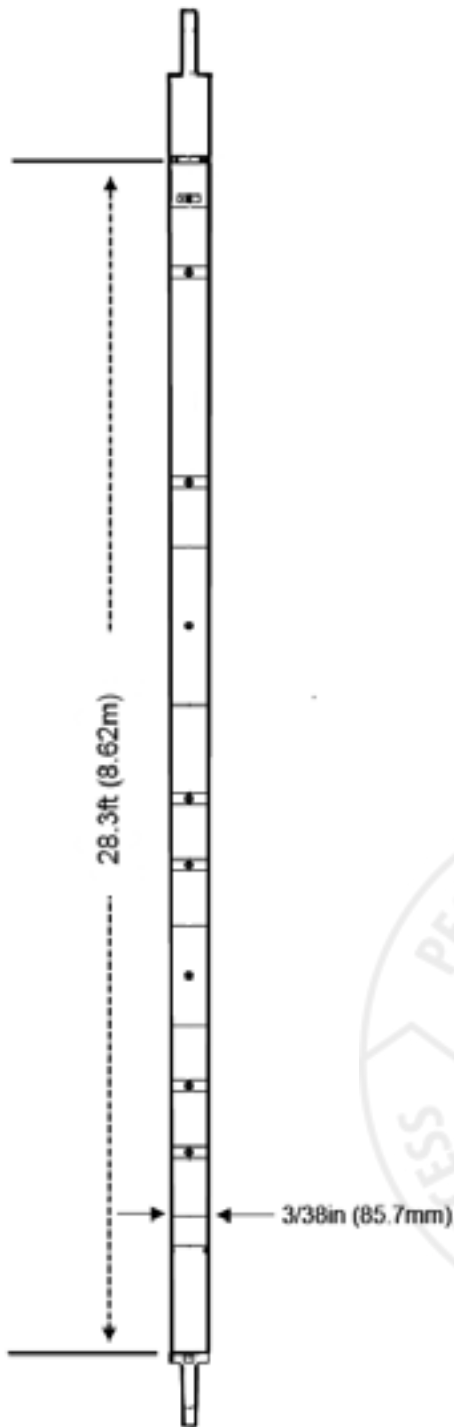
The Dual Laterolog Tool is used to measure the formation resistivity in boreholes with highly conductive drilling mud, or where there is a large contrast between the mud resistivity and formation resistivity. The DLL produces two measurements, the laterolog shallow (LLS), and laterolog deep (LLD). When combined with a microspherically focused tool (MSFL), a resistivity profile with three depths of investigation is possible.

The DLL tool forces measure current into the formation that returns to either tool body (LLS), or a surface reference (LLD). By using an array of electrodes, the tool is capable of focusing the measure current into the formation. The result is a more reliable measurement in boreholes where an induction tool response would be affected by mud salinity or high formation resistivity. The DLL is usually logged with an MSFL tool that provides a very shallow resistivity measurement. The combination of the DLL and MSFL readings can be used to Calculate R_t and R_{xo} .

Features

- Rugged construction 302 deg F and 20 kpsi
- Fully compatible with GE Ultrawire™ tools
- LLS and LLD vertical resolution of 24 inches
- Easy to transport – can be broken down into sections less than 10 ft





Specifications		
Maximum OD	3 3/8 in	85.7 mm
Makeup Length ¹	20.4 ft	6.2 m
Weight ¹	310 lbs	141 kg
Maximum Temperature	302°F	150°C
Maximum Pressure	20 kpsi	137.9 Mpa
Minimum Hole	6 in.	152 mm
Maximum Hole	16 in.	406 mm
Sensor Offsets		
LLS/LLD	6.70 ft	2.04 m
Borehole Conditions		
Borehole Fluids	Moderately Fresh, Salt	
Recommended Logging Speed	60 ft/min	18 m/min
Tool Position	Centralized/Decentralized	
Measurement		
Accuracy	0.2-2000 ohm-m 5.0% or +/- 0.6 ohm-m	
	2000-40000 ohm-m 5% or +/- 0.025 ms/m	
Vertical Resolution	2 ft	0.6 m
Radial DOI (50%)	LLS Rxo < 0.1 x Rt Rm < 0.2 ohm-m	14 in.
	LLDRxo < 0.1 x Rt Rm < 0.2 ohm-m	45 in.
Measurement Range	0.2 - 40000 ohm-m	
Primary Curves	LLS, LLD	
Secondary Curves	SP	
Hardware and Power Requirements		
HTool Bus	Ultrawire	
Power	18 VDC	

1. Rigid bridles required for proper operation sold separately.
Specifications courtesy of GE-Energy



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