

Dual Laterolog Tool (DLL)



The Dual Laterolog (DLL002) identifies hydrocarbon bearing zones in wells drilled with water based muds.

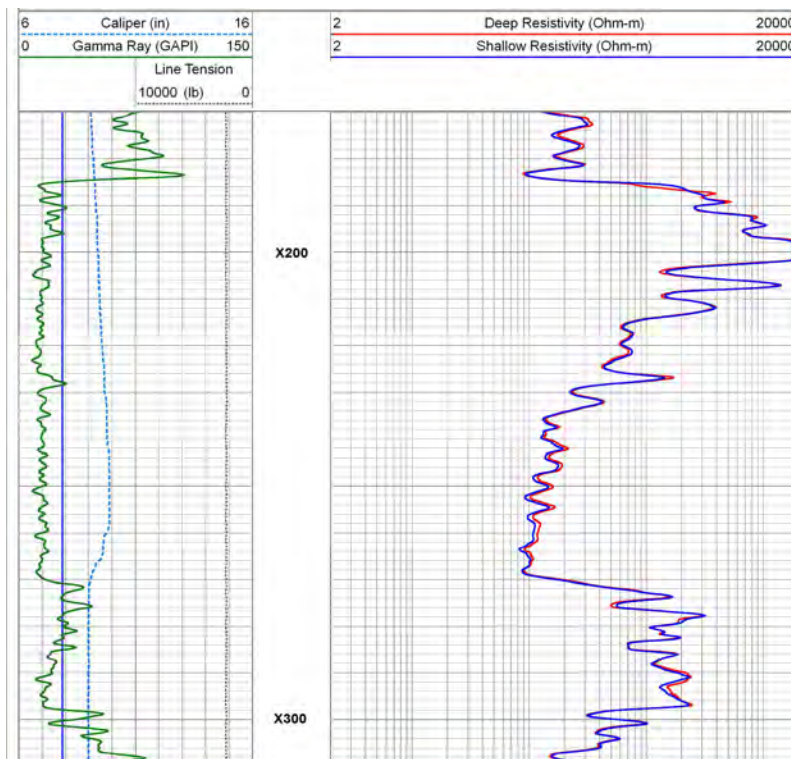
The Dual Laterolog (DLL) measures formation resistivity over a wide range in boreholes with salty or moderately fresh drilling muds. The DLL has an array of electrodes that focus electrical current into the formation. The current returns either to the tool body (for the shallow "LLS" resistivity measurement), or to a surface reference (for the deep "LLD" resistivity measurement). The result is a reliable resistivity measurement in circumstances where an induction tool response may be adversely affected by the mud salinity or high formation resistivity.

When the DLL is combined with a Micro Spherically Focused Log (MSFL), a resistivity profile with three depths of investigation is possible. The combination of the DLL and MSFL readings can be used to calculate R_t and R_{xo} .

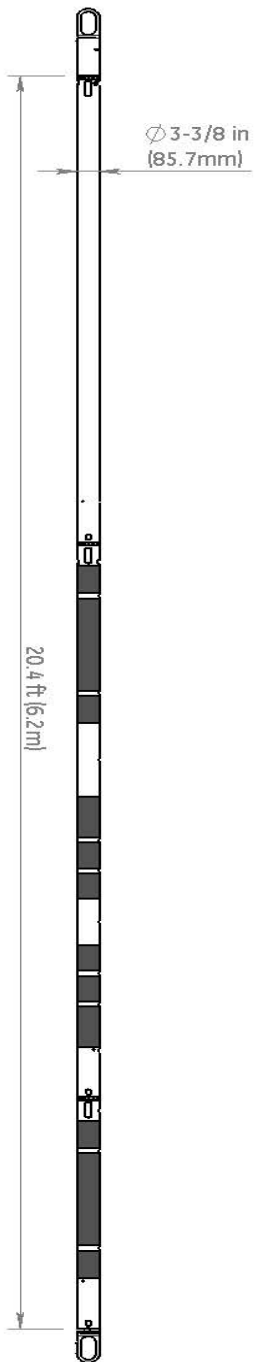
The DLL is run with a rigid bridle. One section of the bridle has an electrode to measure the Spontaneous Potential (SP).

Features

- Rugged construction: 302°F and 20 kpsi
- LLS and LLD vertical resolution of 24 inches
- Fully compatible with Sondex Ultrawire tools
- Easy to transport: can be broken down into sections less than 10 feet



Dual Laterolog Tool (DLL)



Specifications		DLL002	
Maximum OD	3 3/8 in. (85.7 mm)		
Makeup length ¹	20.4 ft (6.2 m)		
Weight ¹	310 lb (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	30 ft/min (9 m/min)		
Tool position	Centralized/Eccentralized		
Measurement			
Accuracy	0.2-2,000 ohm-m 5.0% or +/- 0.6 ohm-m		
	2,000-40,000 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.	
	LLD Rxo < 0.1 x Rt Rm < 0.2 ohm-m	45 in.	
Measurement range	0.2-40,000 ohm-m		
Primary curves	LLS, LLD		
Secondary curves	SP		
Hardware and Power Requirements			
Tool bus	Ultrawire		
Power	18 VDC		

1. Tool must be run with a lower electrode A2L or MSFL (excluded from makeup length). Rigid bridle required for tool operation (sold separately).



imagination at work

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