semm Logging
WELL LOGGING SERVICES

3 ⅜" Product Line

Dual Laterolog

The Dual Laterolog instrument is designed to measure formation resistivities in boreholes with conductive mud systems. An array of electrodes in the tool together with IsoSubs is configured to achieve resistivity measurements with two different depths of investigations (Deep and Shallow Laterolog resistivities). The return electrodes are positioned far away from the emitting electrodes in the tool string to allow for deep penetration of the formation. No bridle is required. A Spontaneous Potential is also measured.

Specifications

Diameter:	92 mm	(3.62")
Length:	6450 mm	(253.9")
	w/o bottom electrode	
Weight:	149 kg	(328 lbs)
Max. Temp:	175°C	(350°F)
Max. Pressure:	140 MPa	(20 000 psi)
Telemetry required:	yes	
Top Connector:	yes	
Bottom Connector:	yes	
IsoSubs required:	yes	

Sensor:	Electrode arrays	
Measure points:		
R_{Deep}, $R_{Shallow}$	2150mm (from bottom)	(84.6")
SP:	3900 mm (from bottom of Long IsoSub)	(153.5")

Measuring Parameters

Measuring Range:
- R Deep, R Shallow: 0 to 40 000 Ohmm
- SP: -1000 mV to 1000 mV

Accuracy:
- R Deep, R Shallow: ± 5 % + 0.05 Ohmm (between 0.2 and 2000 Ohmm)

Depth of Investigation

Deep:	2500 mm	(100")
Shallow:	800 mm	(32")

Logging Parameters

Recommended		
Min. Hole Diameter:	127 mm	(5.0")
Max. Hole Diameter:	576 mm	(22.7")

Recommended	
Logging Speed:	18 m/min (3550 ft/hr)
Sample Rate:	selectable

Iso Sub/Spacer

0819/0820 Iso Subs/Spacer short

Length:	640 mm	(25")
Weight:	25 kg	(55 lbs)
SP Electrode:	yes	

0821 Iso Subs/Spacers long

Length:	4535 mm	(178.5")
Weight:	84 kg	(185.2 lbs)
SP Electrode:	yes	

Displayed Standard Curves

RD or RDeep in Ohmm	Deep Resistivity
RS or RShallow in Ohmm	Shallow Resistivity
SP in mV	Spontaneous Potential

Combinability

With all other 3 ⅜" instruments

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