

CENTURY GEOPHYSICAL LLC.

PRODUCT DESCRIPTION

4339 (LDT) Express Stack™ Deployable Litho Density Tool

Background Information

The Series 4339 Deployable Litho-Density Tool sub uses two focused density detectors to computer borehole compensated density real time. This tool also uses photoelectric technology to determine lithology directly. It can distinguish between sandstone, limestone, dolomite, shale, and other rocks in the form of an additional logging curve(PE). Additionally, the tool also records caliper readings. It requires the use of the 4000 Stack Gamma Ray Tool Sub, which provides the needed telemetry, and is compatible with all Express Stack™ Tools .

	Features		
	Properties Measured (see diagram)	Tool Specifications	
	<p>1. Caliper: Motorized, uphole actuated 33.02cm (13 in.) Offset(measured from top of Gamma Ray Tool Sub) 589.79(232.2 in.)</p> <p>2. Far Density: x 10.16cm(0.875 x 4.0 in) 35.8cm(14.1 in.) spacing Offset:630.42cm (248.2in.)</p> <p>3. Compensated Density: Cdl (compensated density log) Offset: 630.42cm (248.2in.)</p>	<p>4. Compensation: Comp(compensation) Offset: 630.42cm (248.2in.)</p> <p>5. Near Density 2.2 x 3.2 cm(0.875 x 1.25 in.) 20cm(7.9 in.) spacing Offset: 630.42cm (248.2in.)</p> <p>6. Photoelectric x 3.2cm(0.875 x 1.25 in.) 20cm (7.9 in.) spacing Offset: 645.66cm (254.2 in.)</p>	<p>Length: 696.46cm (274.2 in.)</p> <p>Temperature: 125c (257F)</p> <p>Diameter: 6.35cm (2.5 in)</p> <p>Pressure: 350kg/cm² (5000 psi)</p> <p>Weight: 58 kg (128 lbs.)</p> <p>Logging Speed: 9m/min. (30ft/min.)</p>
	Sensor Response Ranges		
Sensor	Response Limits	Accuracy	
Photoelectric (PE)	0-10 barns/electron	+/-5%	
Caliper(CAL)	0-35.6cm (14 in.)	+/- 0.635cm (0.25 in.)	
Near Density (ND)	0.5 to 3.5 g/cc (0.02 to 0.13 lbs./ci)	+/- 0.02 g/cc (0.001 lbs./ci)	
Far Density (FD)	0.5 to 3.5 g/cc (0.02 to 0.13 lbs./ci)	+/- 0.02 g/cc (0.001 lbs./ci)	
Compensated Density	0.5 to 3.5 g/cc (0.02 to 0.13 lbs./ci)	+/- 0.02 g/cc (0.001 lbs./ci)	