



LITHO DENSITY LOGGING TOOL

GOWELL's Litho Density Tool is part of the Gallop Suite, and provides accurate bulk density (RHOB) and photoelectric effect (PE) measurements for formation porosity evaluation, and lithology identification.

Lithology tools are extremely important as they provide a clear picture of the feasibility of a particular well, which allows the user to adjust and maximize production accordingly. Dual detectors allow mud cake corrections to be applied, and a caliper measurement is also provided.

FEATURES



- Combinable with other Gallop tools
- Single axis caliper measurement provided
- Measurements provided in a wide range of borehole sizes
- Utilizes a dual spectrum detector to eliminate mud cake in order to obtain accurate formation density

APPLICATIONS

- Measures formation porosity
- Formation lithology evaluation (PE)
- Generates synthetic seismic traces
- Gas detection and shale identification combined with Neutron log

PAD SECTION



LDLT



LITHO DENSITY LOGGING TOOL

SPECIFICATION

LDLT	
GENERAL SPECS	
Maximum Pressure	20,000 PSI (140 MPa)
Maximum Temperature	350 °F (175°C)
Maximum Hole Size	24 in (610 mm)
Minimum Hole Size	5.5 in (140 mm)
Diameter	4-4/5 in (121.9 mm)
Length	13.47 ft (4106 mm)
Weight	413 lbs (187.5 kg)
Max. Logging Speed	30 ft/min (9 m/min)
BOREHOLE CONDITIONS	
Borehole Fluids	Any
Tool Position	Eccentralized
HARDWARE FEATURES	
Voltage	220 Vac, 50 Hz
Current	120 mA
Source Type	Cs137 Gamma Source 1.5Ci or above
Sampling Rate	10, 20, 40 samples/m selectable
MEASUREMENT	
Principle	Nuclear
Minimum	RHOB 1.0 g/cm3 , PE 1.0 B/e
Maximum	RHOB: 3.0g/cm3 - PE: 6.0 B/e
Vertical Resolution	14inch (360mm)
Depth of Investigation	50mm~240mm, Depend on the value of RHOB &PE
Accuracy	RHOB: ± 0.02 g/cm3 ($1.0 < Pb \leq 1.6$ g/cm3); ± 0.01 g/cm3 ($1.6 < Pb \leq 3.0$ g/cm3); (Condition is: Good borehole quality, mud cake thickness <12.5 mm)