



DUAL LATERAL LOGGING TOOL

Using an array of electrodes to focus the measuring current into the formation, the Dual Laterolog provides both Deep and Shallow formation resistivity measurements in conductive borehole environments. An SP reading is also recorded by the instrument.

The measurement is particularly suitable for high resistivity formations. Both deep and shallow readings allow for visual identification of permeable formations.

FEATURES

- Combinable with other Gallop tools
- Can distinguish formations bearing conductive fluids (including salt water and mud filtrate) from formations with non-conductive fluids (oil and gas)
- Spontaneous Potential (SP) reading included

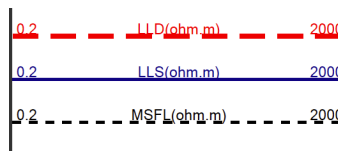
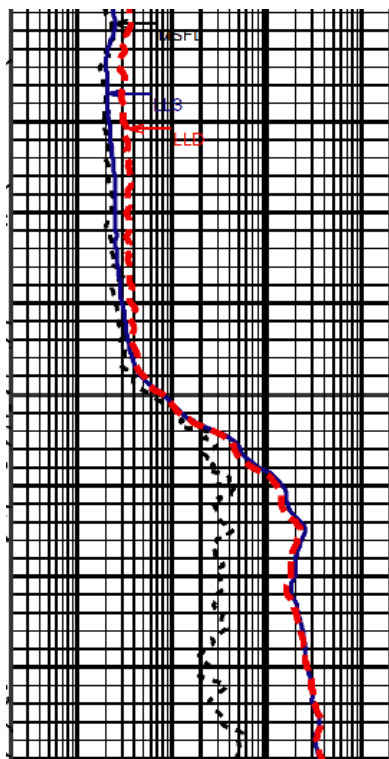
APPLICATIONS

- Invasion Profile determination
- Water Saturation measurement
- Identification of fluid contacts



DLLT

LOG EXAMPLE





DUAL LATERAL LOGGING TOOL

SPECIFICATION

| | DLLT |
|----------------------------|--|
| GENERAL SPECS | |
| Maximum Pressure | 20,000 PSI (140 MPa) |
| Maximum Temperature | 350 °F (175°C) |
| Maximum Hole Size | 22.7 in (575.8 mm) |
| Minimum Hole Size | 4.8 in (120.9 mm) |
| Diameter | 3-1/2 in (89.9 mm) |
| Length | 20.9 ft (6.4 m) |
| Weight | 320 lbs (145.1 kg) |
| Max. Logging Speed | 100 ft/min (30 m/min) |
| BOREHOLE CONDITIONS | |
| Borehole Fluids | Highly conductive muds |
| Tool Position | Centralized |
| HARDWARE FEATURES | |
| Voltage | 220 Vac, 50 Hz |
| Current | 120 mA |
| Auxiliary Voltage | 110 Vac |
| Auxiliary Current | 700 mA |
| Sampling Rate | 10, 20, 40 samples/m selectable |
| MEASUREMENT | |
| Principle | Focused Current Injection |
| Minimum | 0.2 Ohmm |
| Maximum | 40,000 Ohmm |
| Vertical Resolution | 24 in |
| Depth of Investigation | Deep: 100 in (2,540 mm) - Shallow: 30 in (762 mm) |
| Accuracy | ± 20% (0.2 Ohmm - 1 Ohmm), ±10% (2,000 Ohmm - 5,000 Ohmm), ±5% (1 Ohmm - 2,000 Ohmm) |
| Primary Curves | RLLD, RLLS |