

Dual Lateral Log Tool (DLT)

The DLT can make deep and shallow measurements to determine invaded zone resistivity and virgin zone resistivity. By analyzing this information combining with other logging curves, we can directly and accurately distinguish permeability layer, determine oil-water layers, identify and evaluate oil-bearing formation characteristics.

Specifications

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|-------------------------------------|---|
| Maximum Temperature | 200°C (400°F) for 3 hours |
| Maximum Pressure | 20,000 psi (137.9 MPa) (1406 kg/cm ²) |
| Detector or Sensor Type | Electrode Array (Mandrel) |
| Diameter | |
| Electronics | 3.36 in (85.3 mm) |
| Mandrel | 3.62 in (91.2 mm) |
| Minimum Hole Diameter | 5.5 in (139.7 mm) |
| Maximum Hole Diameter | 24 in (576 mm) |
| Make-up Length | |
| (Electronics & Mandrel only) | 18 ft - 9.6 in (5.73 m) |
| Shipping Length w/Thread Protectors | |
| Electronics | 8 ft - 2.0 in (2.54 m) |
| Mandrel | 13 ft - 4.0 in (4.03 m) |
| Weight | |
| Electronics | 102 lb (46.26 kg) |
| Mandrel | 165 lb (74.83 kg) |
| Maximum Tensile Force | 48,000 lb (22,1778.6 kg) |
| Maximum Compressive Force | 7,400 lb (3,357.5 kg) |
| Maximum Logging Speed | 60 ft/min (18.3 m/min) |
| Measurement Range | 0.2 to 40,000 S-m |
| Mud Type/Range | Water based mud 0.015 S-m to 3.0 S-m |
| Accuracy | from 0.2 to 2000 S-m Greater of ±5% OR ±0.06 S-m; from >2000 to 40000 S-m Greater of ±5% OR ±0.025 |
| mmho | |
| Stability (at Max. Temp.) | ±5% of computed readings (with instrument calibrated for internal CAL, ZERO after achieving and maintaining the maximum temperature) |
| Vertical Resolution | 2 ft (0.61 m), given proper formation contrasts above and below zone of interest |
| Radius of Investigation | Deep Standard Return Mode (SrtnDp) 55 in. (1.397 m) Deep Groningen Return Mode (GrtnDp) 42 in. (1.067 m) Shallow Enhanced (EnhSh) 31 in. (0.787 m) Shallow Standard (StdSh) 18 in. (0.457 m) |
| Measure Point | 6 ft - 0 in. (1.83 m) above matching point of black block of DLT Mandrel. |
| Power Requirements | With 180 Vac at Conductor 4 & 6 |
| Wireline Requirements | 7 Conductor Cable |

