



High Temperature Memory Production Logging Tool (MPLT)

Small 1.44 inch Diameter

High-Temperature Production Logging at Its Best

The Scientific Drilling High-Temperature Memory Production Logging Tool (MPLT) [1.44 inch (36.5 mm) diameter 600°F (315°C)] sets the memory production and geothermal logging performance standard. This high-temperature modular system packages the following optimized sensors:

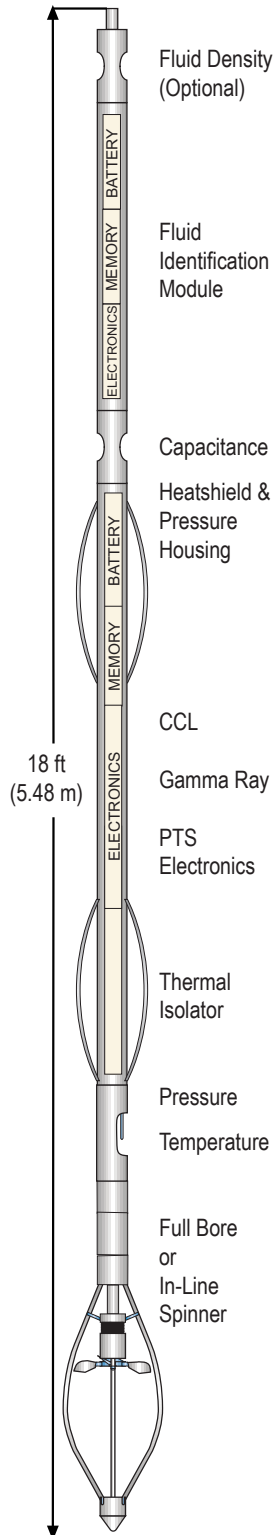
- Casing Collar Locator (CCL)
- Gamma Ray
- Pressure
- Temperature
- Spinner
- Capacitance
- Nuclear Fluid Density

Compact Size Equals Increased Performance

The compact MPLT is 1.44 inches in diameter by 18 feet long. Its reduced cross-section has less tool weight and less effect on flowing well characteristics (less choking effect) than larger-diameter systems. MPLT's memory logging features have distinct advantages over conventional wireline logging.

Multi-Faceted Applications

- Has full production logging capabilities
- Establishes flow profiles
- Establishes fluid types and mixes
- Detects leaks
- Identifies production problems
- Measures downhole steam quality with sophisticated pressure, temperature, spinner, and nuclear fluid density sensors
- Measures downhole mass flow rate with high performance spinner and nuclear fluid density sensors



ADVANTAGES

- Pressure control is simplified in slickline high-pressure (gas) well operations
- Short tool strings permit use in height-restricted areas (offshore)
- Less weight is required with slickline resulting in less lubricator, easier rig up and lower costs
- The need for high-temperature logging cables is eliminated, thus eliminating those costs
- Horizontal wells are easily logged using any standard coiled tubing unit since no expensive wireline is needed
- Has proven, successful reliability in wells worldwide
- Software provides onsite data presentation and interpretation
- Gathers data easily and cost-effectively
- Can be used with any downhole conveyance system
- Is highly reliable in slickline and coiled tubing applications

TECHNICAL SPECIFICATIONS

Temperature Rating Accuracy Resolution	600°F (315°C) ±1.8°F (1°C) 0.018°F (0.03°C)		
Pressure Accuracy Resolution	±3.0 psi (20.7 kPa) 0.01 psi (0.07 kPa)		
Memory	Non-volatile, 2MB / 8Mb		
Spinner	Minimum 0.1 rps with direction		
Gamma Ray	Scint – Na I (T1) 5/8 in (1.6 cm) diameter x 3 in (7.6 cm) long crystal		
Casing Collar Locator (CCL)	50 samples per second		
Nuclear Fluid Density Accuracy Resolution	0.003 g/cc ±0.001 g/cc		
Capacitance	Gas 65 kHz	Oil 55 kHz	Water 29 kHz
Outer Diameter	1.44 in (3.6 cm)		
Length	18 ft (5.48 m)		
Weight	97 lbs (44 kg)		

Specifications are subject to change without notice.