High Temperature Memory Production Logging Tool (MPLT)

Small 1.44 inch Diameter

High-Temperature Production Logging at Its Best

The Scientific Production Services High-Temperature Memory Production Logging Tool (MPLT) [1.44 in (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:

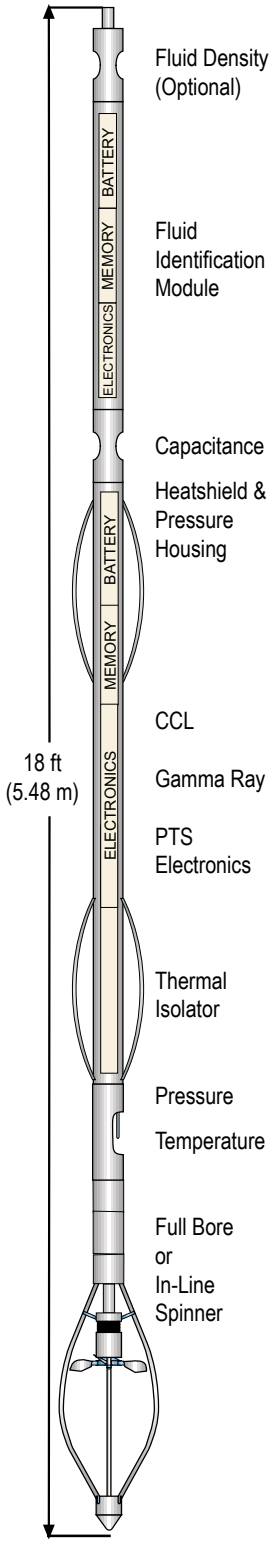
- Casing Collar Locator (CCL)
- Gamma Ray
- Pressure
- Temperature
- Spinner
- Capacitance
- Nuclear Fluid Density

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** 29 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.