

Memory Cement Bond Logging Tool (MCBL)

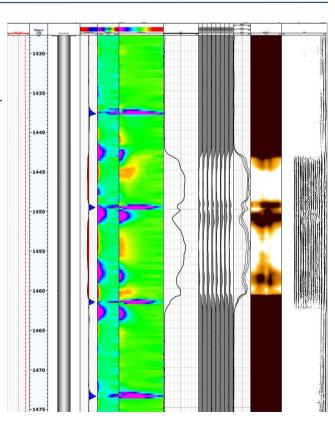
Memory Cement Bond Logging Tool (MCBL) is primarily used to evaluate the cement bond between the casing and the formation, providing key indicators for assessing the sealing integrity of oil, gas, and water wells. The Tool includes a 3-foot sector receiving probe, and a 5-foot VDL (Variable Density Log) probe. Each sector covers a 45-degree cross-section, allowing for a 360-degree assessment of the cement bond integrity.

Features

- The Tool features a 13-core quick connector design, which facilitates easy connection with multi-arm, electromagnetic flaw detection, downhole television, and other instruments, enhancing the efficiency of correlative well logging data acquisition.
- All ultrasonic probe heads are structured in an independent design, offering strong reliability and convenient maintenance.
- The main body of the instrument is designed with four-arm rollers for centralization, complemented by upper and lower roller centralizers, making it particularly suitable for well logging in high-angle and horizontal wells where oil pipes or drill pipes are used as the conveyance method.
- The Tool is equipped with a large-capacity storage system, high-speed data acquisition frequency, and ultra-fast data reading speed, enabling refined and rapid well logging.

Applications

- Perform well logging in operations where cable provision is not possible.
- Provide a 360-degree cement bond log (CBL) image.
- Measure the quality of cement bonding in both horizontal and conventional wells.
- Meet the requirements for well logging in casings ranging from 4.5 inches (114 millimeters) to 10 inches (254 millimeters).
- Quantitatively evaluate the bond index of the first interface, and qualitatively assess the bond index of the second interface.





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Specifications

MCBL-1
14,500psi (100Mpa)
350°F (175°C)
4.5"(114mm)
10"(254mm)
2-3/4"(70mm)
2680mm(105.5in)
44.6kg
32ft/min(10m/min)
13-core
Oil, Fresh Water, Salty Water
Center off Casing
1
2
12 bit
10Mps
8-sector probe 3ft
CBL Probe 3ft
VDL Probe 5ft
15 to 30 VDC
80mA@20VDC
320ms
20KHZ
10Gb