



UltraWire™ Radial Bond Tool

The Radial Bond Tool (RBT) facilitates a detailed, qualitative analysis of the zonal isolation achieved by cementing services. Effective hydraulic isolation from water-bearing formations is crucial to maximise the productivity of hydrocarbon-bearing reservoirs. Poor cementing allows unwanted fluid transfers between zones resulting in the potential for lost or unwanted production.

Radial Bond Tool, RBT003

Well Integrity Platform

Description

The RBT allows the detection of poor cement conditions before perforating enabling proactive measures to be taken. Additionally, its small size, rigid isolator and powerful transmitter allow through-tubing operations after the completion string is in place. In addition to the traditional 3 ft amplitude and 5 ft VDL, the RBT has a radially segmented, calibrated amplitude measurement. This focuses the transmitted sonic pulse circumferentially allowing the differentiation of small axial channels as opposed to poor or contaminated cement.

Features

- Single transmitter, 3 ft (near) and 5 ft (far) receivers, 6-segmented radial receiver array for radial cement imaging
- Variable sampling rates to maximise data acquisition
- Interchangeable telemetry cartridge
- Slotted sleeve design for improved rigidity, strength and acoustic isolation
- Can be deployed through small completions and tubing restrictions to log the liner below (minimum clearance +0.25 inches above tool diameter)
- Fully combinable with other UltraWire™ and UltraMemory™ tools

Specification

Temperature	177°C	350° F	
Pressure	138 MPa	20000 psi	
Tool Diameter	43 mm	1 - 11/16 in	
Tool Length (make-up)	3.03 m	9.93 ft	
Tool Length (transport)	3.13 m	10.27 ft	
Tool Weight	18.1 kg	40 lbs	
Supply Voltage	18 VDC		
Power/Current	50 mA		
Receivers	Piezoelectric crystal		
Signal Output	3 ft amplitude, 5 ft VDL and a cement quality map generated by the calibrated 6-segment receiver array		
Measure Point:	3-ft Amp 5-ft VDL	153.9 cm 123.4 cm	60.6 in 48.6 in
Logging Speed:	@ 50 Kbps @ 100 Kbps <small>at 0.05 m (0.167) standard depth resolution</small>	21 m/min 30 m/min	70 ft/min 100 ft/min
Borehole Environment	Fluid Media (i.e., brine, oil, fresh water, drilling mud)		
Maximum Casing/Tubing ID	19 cm	7.5 in	



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