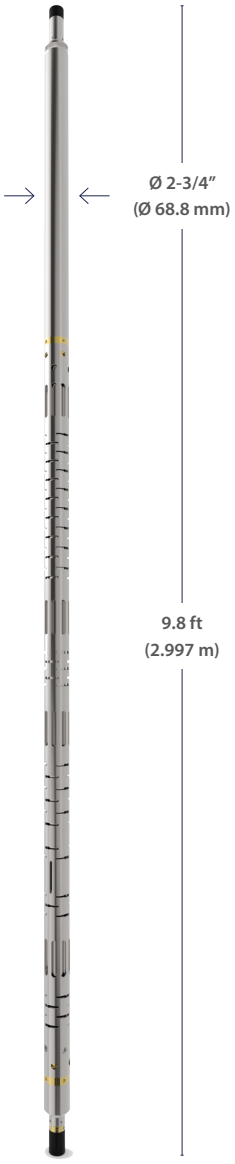
RADIAL BOND TOOL (RBL)

The **Radial Bond Log** tool provides proven superior reliability and responsiveness even in thin cement sheath conditions. With circumferential cement bond evaluation, the **RBL** identifies channels, in addition to standard cement bond logging. The main application of the **Radial Bond Log** tool is to evaluate hydraulic isolation between producing and non-producing zones– a key factor needed to assess the integrity of the well.

In addition to standard cement bond amplitude (CBL) through near receiver (3-ft), and variable density log (VDL) through far receiver (5-ft), the **RBL** tool provides a cement map through eight receivers (Radial @2Ft), each segment covering 45° section of the pipe which gives a complete 360° evaluation of bond integrity.



RBL

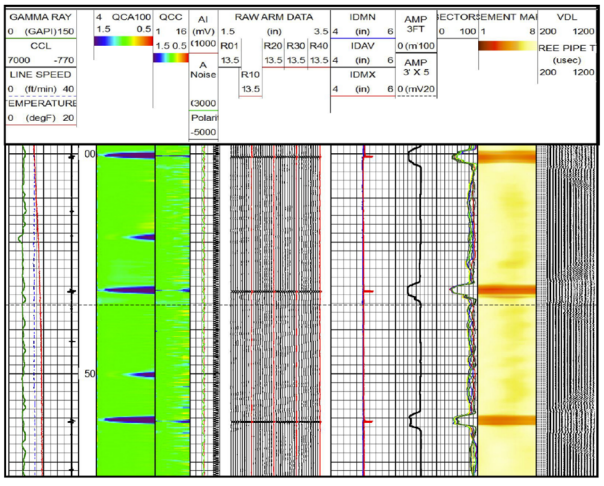
FEATURES

- Combinable with GOWell's Pegasus Series Tools for flexible acquisition and rig time saving
- All receivers are built in a slotted housing to provide rigidity, strength, and noise isolation
- Robust design suitable for horizontal logging
- User friendly acquisition software
- Easily run on all standard wirelines
- Warrior compatible

APPLICATIONS

- Full circumferential resolution for better channel identification
- Provides a 360 degree cement map
- Cement bond quality measurement in slim and conventional wells
- Operates in casing from 3 1/2 in. (89 mm) to 10 3/4 in. (244 mm)
- Indicates channels and intervals using radial receivers
- Measures the attenuation of the acoustic energy in the casing to cement interface

MULTI-FINGER CALIPER + RADIAL CBL + EM PIPE INSPECTION COMBO LOG EXAMPLE



SPECIFICATIONS

	RBL P/N 100508044
GENERAL SPECS	
Maximum Pressure	15,000PSI (103MPa)
Maximum Temperature	350°F (175°C)
Maximum Casing ID	10.75 in. (264 mm)
Minimum Casing ID	3.5 in. (89 mm)
Diameter	2-3/4" (68.8 mm)
Length	9.8 ft (2.997 m)
Weight	132 lbs (60 kg)
Max. Logging Speed	32.8 ft/min (10 m/min)
Combinability	Combinable with Pegasus Series Tools
BOREHOLE CONDITIONS	
Borehole Fluids	Oil, Fresh Water, Brine
Tool Position	Centralized
MEASUREMENT	
Transmitters	Near & Far = 2 5/8"
Receivers	Radial = 8 Segments
Measurements	Near @ 3ft., Far @ 5ft., Radial @ 2ft.
Wave Sample Rate	2us for All Waves
Wave Start/Stop	2ft Segments, 100-400us 3ft Segments, 100-800us 5ft Segments, 100-1200us
HARDWARE FEATURES	
Voltage	18V to 36V
Current	≤ 430 mA @ 18v
Tool Time Cycle	3 x 50ms - 150ms
Transducer Type	20 KHz Piezoelectric
Output Data	Waves: 3ft, 5ft, 2ft (8 Segments) Calibration Waves Accelerometor Data Housing Temperature