



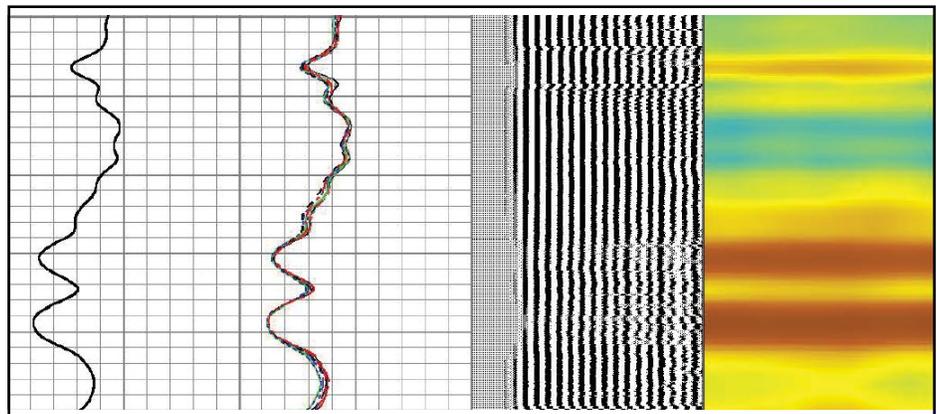
Evaluating the bonding of the cement to the well casing and in turn, to the formation is crucial. Allied-Horizontal's extensive experience and technology can help assure you that these bonding interfaces are of good integrity, giving you a good hydrostatic seal which prevents communication between the producing formation and other formations.

Our Radial Cement Bond Tool utilizes a single transmitter, an eight segment receiver at 3 foot spacing and a single receiver at 5 foot spacing, to accurately measure the quality of the cement bond. The segmented receiver provides a radial distribution map of the cement bond quality as well as an indication of channeling behind the casing.

Constructed of high quality steel with oil filled, pressure compensated transmitter and receiver sections with ceramic transmitter and receivers, the Radial Cement Bond Tool is designed to withstand higher temperatures and pressures.

To help lower number of logging passes, the digital signal section is capable of transmitting data to the surface from tools run below such as a Gamma Ray/CCL, In-line Neutron, Compensated Neutron or other tools with one or two pulse channels running below the CBL tool.

Transmission of the sonic data to the surface is accomplished by an internal controller transmitting 8 signals from the Radial Cement Bond Tool receiver, a composite 3 foot signal, a 5 foot receiver signal, and an internally generated calibration signal.





| Specifications | |
|---------------------|------------------------|
| Diameter | 2.75 in. (6.90 cm) |
| Length | 104.8 in. (2.7 m) |
| Weight | 93 lb. (42.2 kg) |
| Operating Voltage | 130 VDC |
| Operating Current | 45 mA. DC |
| Maximum Pressure | 20,000 psi (137.9 MPa) |
| Maximum Temperature | 350 °F (177 °C) |
| Mechanical | |
| Top Connection | 1.1875 in. 12P GOI Box |
| Bottom Connection | 1.1875 in. 12P GOI Box |

Specifications courtesy of Probe Technology Services, Inc.