

CEMENT BOND LOGGING TOOL RBT



DESCRIPTION

The RBT is equipped with one transmitter and two receivers constructed out of piezoelectric crystals. The near receiver, located 3Ft from the transmitter, is constructed of an 8-sector radial sensor. The primary amplitude is constructed from radial signals at the near receiver while the Variable Density Log is constructed from the far receiver. The RBT can be deployed in deviated holes and combines easily with any of the other range of tools. The tool is comprised of H2S resistant materials throughout.

The analog waveform is completely digitized downhole and converted back to analog at surface for interpretation. By digitizing downhole the tool is able to:

- By-pass analog calibration pulse issues on H2S line transmission
- Store and revert to a calibrated configuration upon power up. Internal memory settings for sensor pickups circumvent the need for free pipe calibration

APPLICATIONS

- Provide quantitative analysis of cement bond in eight 45 degrees segments for identification of channels in cement
- Identification of intervals of uniform bonding and detection of cement quality in casing sizes from 4 1/2 to 13 3/8 in
- Quantitative analysis of cement bond to casing
- Qualitative analysis of cement bond to formation

SPECIFICATIONS

PROTOCOL	GDTbus	
DIAMETER	1-11/16" (43mm)	3-1/8" (80mm)
MAX. TEMPERATURE	350°F (175°C)	
MAX. PRESSURE	20,000psi (140MPa)	
LENGTH	114.3" (2902mm)	107.0" (2718mm)
TRANSMITTER	1 Piezoelectric	
RECIEVERS	6 (60 Deg)	8 (45 Deg)
VOLTAGE	18 VDC	
CURRENT	82mA	50mA
CASING DIAMETER	1 3/4" -7" (45-177.8mm)	4 1/2" -13 3/8" (114-340mm)
LOGGING SPEED	35ft/min (11m/min)	

