MULTIPLEX II

Radial Bond Tool

DIMENSIONS & SPECIFICATIONS

Maximum Temperature: 375 °F Maximum Pressure: 20,000 PSI Maximum External Diameter: 3.125 In. Maximum Casing Size: 13.38 In. Minimum Casing Size: 3.75 In.

Weight: 215 Lb

Total Length*: 13.833 Pies (165.996 Pulgadas) Measuring Section: 6.933 Ft (83.196 In.) Electronics Section: 6.9 Ft (82.8 In.) * The total length does not include the three centralizers

required. Two of them are placed at the top and bottom ends of the tool and the third should be placed in the center, at the field joint between the electronics and Measuring Section.

BOREHOLE & LOGGING DETAILS

Wellbore Fluids: Maximum Logging Speed: 30 Ft/Min Sampling Rate: 0.2 Pies (5 Samples/Ft) Brine \checkmark Fresh Water ☑ Emulsions 🗹 Tool Positioning in the Borehole: Centralized

LOGGING TOOL FEATURES

Transmitter Type: Piezoelectric Crystal fired

at mseg intervals.

Receivers:

Radial: 8 Segments Piezoelectric @ 23 KHz

Omnidirectional: Two piezoelectric

receivers @ 23 KHz

Temperature Sensor: Platinum RTD Collar Locator: Magnetic, Active Gamma Ray: Scintillation Crystal

Telemetry: AMI

Receiver Spacing to Transmitter:

Radial: 2 Ft.

Omnidirectionals: 3 &y 5 Ft

Firing Rate: 19.5/sec

Waveforms: Analog: 3 Ft, 5 Ft, Radial 1 to 8

Calibration Signal Sampling Time: 1.75 msec

Combinability: Single and Double Detector

Neutron Tools

MEASUREMENTS

Principle:	Sonic wavetrain attenuation		
Waveforms	8 Radial	Variable Density	Primary
TX - RX Distance	2 Ft.	5 Ft.	3 Ft.
Range:	100 to 1500 μsec	100 to 1400 μsec	100 to 1400 μsec
Vertical Resolution:	2 Ft.	5 Ft.	3 Ft.
Accuracy:	< 1 mV	N/A	< 1 mV
Resolution:	±2%	N/A	±2%
Primary Curves:	AMP & TT (3 Ft., Radial & 5 Ft.), VDL (5 Ft.), Cement Map		
Secondary Curves:	CCL, Gamma Ray, Temperature		

CALIBRATION

Primary: Presurized Calibration Tank, 5.5 In. x 17 Lb/Ft.

Wellsite Verification: Free Pipe Log

MEASURING POINTS

CCL: 74.4 Inches above the bottom of the electronic section (Field Joint)

Gamma Ray: 52.896 Inches above the bottom of the electronic section (Field Joint)

Radial Amplitudes, Amplitude Map: 60.996 Inches above the bottom of the Measuring Section

Amplitude, TT (3 Feet): 54.996 Inches above the bottom of the Measuring Section VDL, 5 Feet Waveform: 43.992 Inches above the bottom of the Measuring Section

Temperature: 2.988 Inches above the bottom of the Measuring Section



Contact: Víctor Javier Pernía +1 (832) 671 2478 vpernia@leimar.us

