

HSR-35

3-1/2" High Speed Radial Cement Bond Logging Tool

Description

The High Speed Radial (HSR) presents the next generation of cement bond tools. It evaluates the cement bond quality and integrity to both casing and formation by providing a 360° cement map with a dedicated 12-segment Radial receiver located 2-ft from the transmitter. It also provides standard cement bond amplitude (CBL) through Near receiver (3-ft), and Variable Density Log (VDL) through Far receiver (5-ft). All sonic data is captured and stored digitally. A built-in advanced telemetry system ensures high speed logging without compromise in Sonic quality. A Gamma Ray, Casing Collar Locator and Temperature sensors are included in the tool.

Applications

- 360° cement map (12 Radial Receivers)
- Evaluation of cement bond quality and integrity.
- Location of free-pipe and cement-top.

Features

- Rated for High-temperature and high-pressure environments.
- Gamma ray detector, CCL detector, and temperature sensor are built in.
- (Optional): Tension/Compression force Sensor, and Top side locator Sensor (relative bearing).
- Compatible with most surface systems.
- Runs on all standard wirelines.
- Combines with all standard pulse tools on the bottom.
- All receivers are built in a slotted housing to provide rigidity, strength, and noise isolation.
- Built in TOP SIDE LOCATOR (optional).
- Rigid design ideal for horizontal logging.
- Electronic design verified for 1 hour operation at 415°F to ensure reliability.
- Proudly designed and manufactured in Canada

Specifications

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|-------------------------------|--|-----------------------------------|--|
| Tool Operating Voltage | 100 to 150 VDC | Tool Length | Under 4.0 m (13 feet) |
| Tool Operating Current | 80 to 90 MA | Tool Weight | 104.3 Kg (230 Lb) |
| Tool Time Cycle | 3 X 50ms = 150ms | Tool Positioning | Must be centralized |
| Max. Temperature | 204°C (400°F) | Max Logging Speed | Up to 30m/min (100 ft/min) |
| Max. Pressure | 172.4 Mpa (25,000 PSI) | Borehole Fluids | Oil - Fresh Water - Brine |
| Receivers | Near & Far = 2 5" Omni Radial = 12 Segments | Measurements | Near @ 3 ft, Far @ 5 ft Radial @ 2 ft |
| Transmitter | 2 5" Dia. Omni | Recommended Max. Casing ID | 346 mm (13.625 in) |
| Tool Diameter - OD | 88.9 mm(3-1/2 in) | Recommended Min. Casing ID | 140 mm(5.25 in) |



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