

S100

Point® System Sensor

Locate barrier leaks downhole

Powered by Ultrasound

Leaks in the primary barrier of a well can reduce well performance and potentially lead to safety and environmental issues due to loss of integrity. An active leak across a barrier creates acoustic energy, and the S100 sensor harnesses the ultrasonic components to precisely identify and locate its depth. The properties of ultrasound allow continuous logging passes to be made, achieving rapid location diagnoses, even where low-rate or multiple leaks are present.



Clear, accurate, complete

The S100 sensor is able to identify leaks in the primary tubular barrier and associated completion equipment. A clear log response allows rapid interpretation and the properties of ultrasound bring precise determination of the depth of the leak. Even with the well flowing the S100's advanced technology makes it sensitive to a very wide range of leak rates, meaning that multiple leaks of varying size may be detected in a single pass for a complete evaluation of integrity. The S100 sensor has proved its reliability with over 2,000 deployments as part of the Point® service.

Fully combinable with other sensors, the S100 can be run real-time with surface read-out or in memory mode.

Key Benefits

- Fast, accurate location of single or multiple leaks
- Sensitive to wide range of leak rates
- Precise depth location
- Wells can be diagnosed while flowing, allowing hard-to-find leaks to be revealed
- Flexible deployment options: real-time and memory

Applications

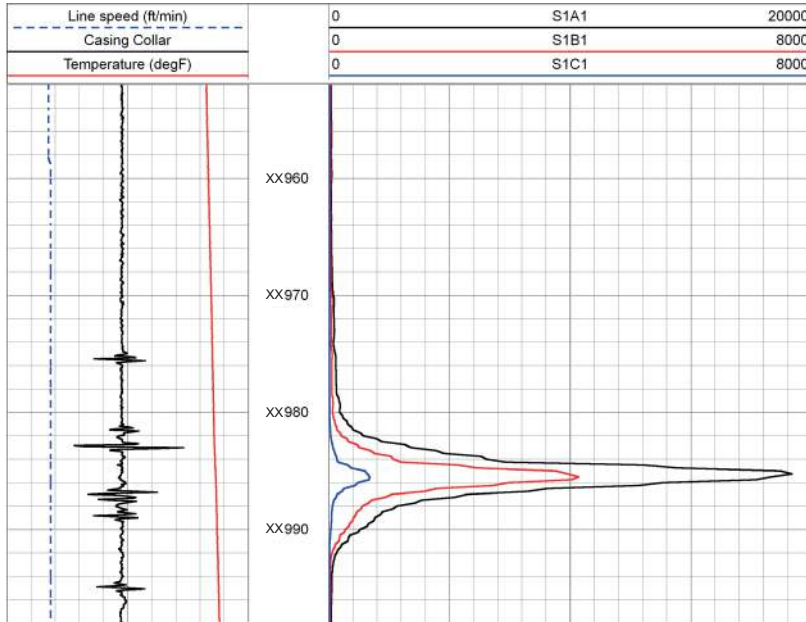
- Leak detection in tubing and packers
- Leak detection in completion components such as SSD, SPM, GLM
- Post remediation verification

Archer

S100

Unambiguous results

In a complex well, sustained A annulus pressure may be the result of a leak in any one of many components including items of jewellery or packers. A single run with the S100 sensor as part of a LeakPoint® survey clearly reveals the location of the leak.



The S100 response is unequivocal, precisely locating the depth of the leak indicating that production packer is the cause of the integrity failure.

Specifications

Sensor

Type Passive acoustic

Operational

Dynamic logging Yes
 Stationary logging Yes
 Typical logging speed 30 ft/min [91 m/min]
 Logging mode Real-time and memory

Physical

Outer diameter 1-11/16" [43 mm]
 Length 23.6" [600 mm]
 Weight 9.1 lb [4.1 kg]

Environmental

Maximum temperature 350°F [177°C]*
*available on request 302°F [150°C]
 Maximum pressure 15,000 psi [1 034 bar]

The **Point®** system
 A proactive and systematic approach
 to integrity management

Check**Point®**/A10
 Check**Point®**/A50
 Check**Point®**/A70

SURFACE INVESTIGATE
 DOWNHOLE LOCATE

Leak**Point®**/A10
 Leak**Point®**/A30
 Flow**Point®**/A50
 Flow**Point®**/A70



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