Halliburton Wireline and Perforating
Acoustic Conformance Xaminer™

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Customer Challenges

- Top Three Integrity Issues
  - Shallow flow
  - Mechanical leaks
  - Corrosion leaks
Key Features

- Uses an array of acoustic sensors
- Finalized product capability:
  - Detects flow throughout well structure
  - Vertical accuracy usually within inches
  - Estimates radial location
- Characterizes detected flow:
  - Estimates flow rate – (Low/Medium/High, set thresholds)
  - Estimates flow composition – Liquid/Gas
ACX™ Tool - Specifications

**Tool**
- OD 1-11/16 in. (42.86 mm)
- Length: Each section is 72 in. for a total of 12 ft
- Weight: 45 lb
- 15,000 psi, 300°F
- Memory chip for High Definition data
- Default tool string – ACX tool, gamma, CCL, pressure, temperature, and flow spinner
- Acoustic Testing
Phase two of Acoustic Testing
Magnitude
Tubing and Casing
Forward modeling of the same data identifies the depth and radial location of the leak within inches.
Examples
Local Case Study - Shallow Leak