



Detect & Monitor Wear & Corrosion Of Tubular



About This Service

Ultrasonic Direct Measurement Of Casing Integrity And Cement Evaluation

WOS WellSoniX Ultrasonic casing integrity inspection and cement evaluation logs are critical components of well integrity assurance. The WellSoniX tool focuses on detecting wear, corrosion, and structural defects in tubulars by identifying both internal and external anomalies and accurately measuring wall thickness to assess burst and collapse pressure thresholds. This data supports risk analysis and operational decisions throughout the well's lifecycle.

Complementing casing inspection is a cement evaluation utilizing acoustic impedance measurements to identify the material behind the casing—distinguishing between cement, fluid, or gas—and provides circumferential analysis to determine cement coverage. It also detects channels and voids that may jeopardize zonal isolation. Together, the WellSoniX diagnostics ensure safe, long-term performance of the wellbore and effective barrier integrity.

Benefits

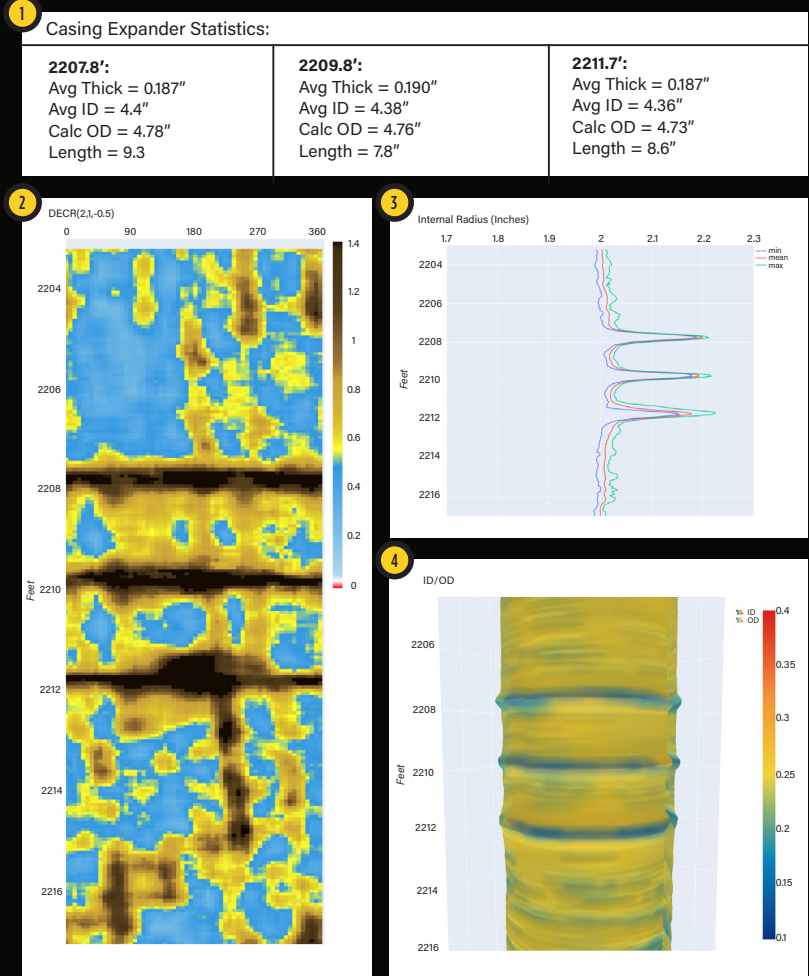
- Direct measurement eliminates identification of ambiguous shape and size defects
- Memory tool can be conveyed on slickline, wireline, or tubing
- Casing integrity and cement evaluation completed in same run
- Define internal versus external corrosion and defects
- Small OD design to negotiate restrictions capable of logging 3.5" to 9.625" OD tubulars



Direct measure tubular wall thickness for collapse and burst pressure calculations

WellSoniX Technical Specifications

Tool OD	2.285"
Max Operating Pressure	8000 psi
Max Operating Temperature	239F
Tool Length	13.2'
Tool Weight	92lbs
Tubing/Casing Operating Ranges	3.5 - 9.625
Well Fluid Compatibility	Water/Oil/Brine/Gas
Battery/Memory Life	13,123' HiRes / 26,246' LowRes
Logging Speed	HiRes 16ft/min, LowRes 32ft/min
Angular Detection	60 samples/revolution @ 180rpm
Detection Resolutions	Down to 2mm
Wall thickness Resolution	<0.1mm
Caliper Accuracy	<0.1mm
Data Processing	Onsite PC
Integrated Sensor	Pressure, Temp, IMU
Environmental Correction	Wellbore Medium (speed of sound)



Measure Acoustic Impedance of
cement, fluid, gas material behind pipe

1 Casing Expander Statistics
2 2D Ultrasonic Model

3 Internal External Ultrasonic
4 3D Ultrasonic Model

Features

- High resolution 360° direct wall thickness measurement and internal geometry mapping
- Accurately identify defects as small as 0.079" OD
- Accuracy: ID = 0.004" and Wall Thickness = 0.004"
- Cement bond log capability to identify voids, channels, and debonding
- Capable of logging 3.5" to 9.625" OD tubulars
- Real time environmental corrections using fluid velocity from time-of-flight sensor

Accessories

- Gamma Ray
- Magnetic Collar Locator
- External probe temperature measurement
- Caliper logs



SCAN CODE TO
VIEW PRODUCT PAGE