



VERSA-LINE ViewSoniX™

# Casing inspection and cement integrity

NEW ULTRASONIC WELL-INTEGRITY LOGGING

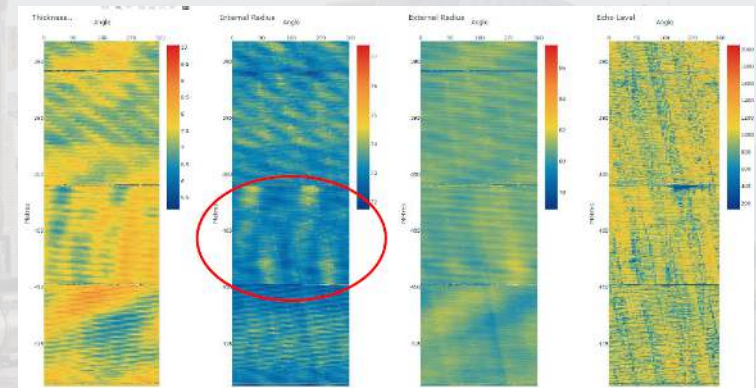
## Versa-Line ViewSoniX™

High-fidelity ultrasonic measurements support pipe-condition assessment, barrier evaluation and more informed remediation decisions.



### Casing & tubing inspection

Measure internal diameter and wall thickness with high-resolution ultrasonic data. Identify internal and external corrosion, wall loss and pipe deformation. Image completion features to support intervention planning.



Internal corrosion inspection example

### Cement and barrier evaluation

Micro-bond and bond logs assess material contact and loading behind casing. Support casing retrieval and remediation planning, then verify treatment results.

### Memory slickline deployment

Process data on a Windows laptop with on-site reporting, typically about two hours after logging.

Discuss your well-integrity application at [www.versa-line.com](http://www.versa-line.com)

# Powered by the Versa-Line ViewSoniX™ Engine

High-fidelity signals. More detailed measurements.

The Versa-Line ViewSoniX™ Engine accounts for the ultrasonic system's electronic and mechanical properties to produce a short pulse with a broad 500-3,000 kHz bandwidth.

## Ultrasonic measurements

### 01 Pipe internal diameter

The first reflection's travel time measures the pipe's internal diameter.

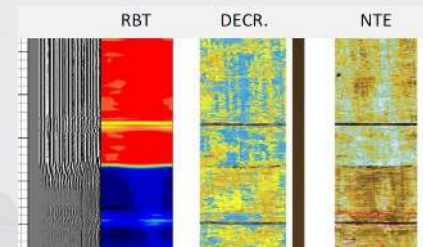
### 02 Wall thickness

Spacing between multiple frequency harmonics determines pipe wall thickness.

### 03 Material behind casing

Decay between individual external-wall reflections directly measures acoustic absorption at the casing boundary.

## Complementary cement outputs



DECR micro-bond  
Decay Rate measures attenuation between the first two casing outer-wall reflections for detailed micro-bond evaluation.

NTE bond log

Normalised Tail Energy indicates the mass of material behind casing.

## Key specifications

|                            |                      |
|----------------------------|----------------------|
| Tool outside diameter      | 2.285 in             |
| Casing range               | Up to 20 in          |
| Internal radius resolution | 0.2 mm               |
| Wall thickness resolution  | 0.1 mm               |
| Processing                 | Windows laptop       |
| Data availability          | ~2 hrs after logging |

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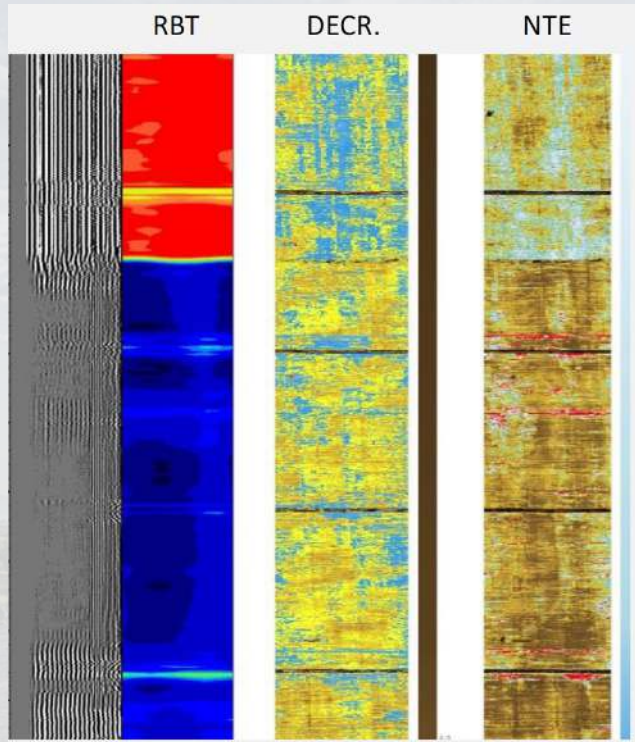


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# ViewSoniX™ CBL outputs

## CEMENT EVALUATION

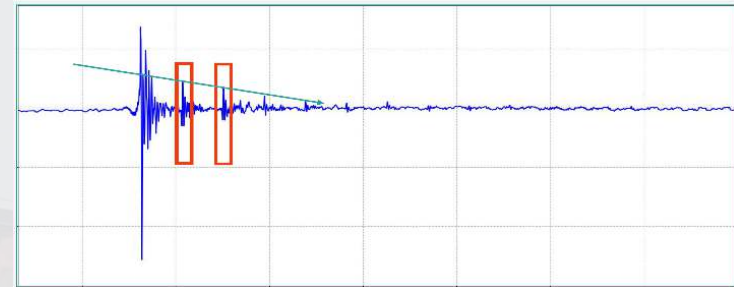
### Legacy Log and ViewSoniX™ Log



ViewSoniX™ adds the DECR micro-bond and NTE bond-log outputs alongside the legacy presentation.

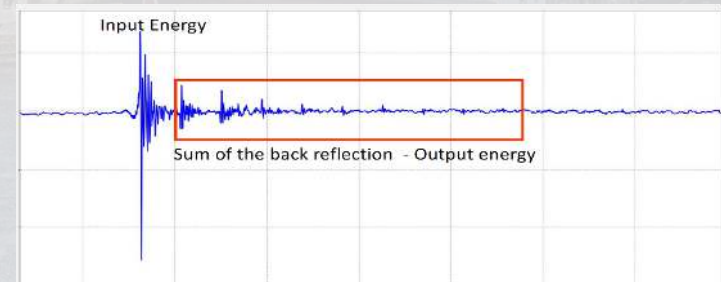
### DECR - Decay Rate

Rate of attenuation between the first two casing OD reflections. High-resolution micro-bond output.



### NTE - Normalised Tail Energy

Sum of the back-reflection output energy. Indicates the mass of material behind the casing.



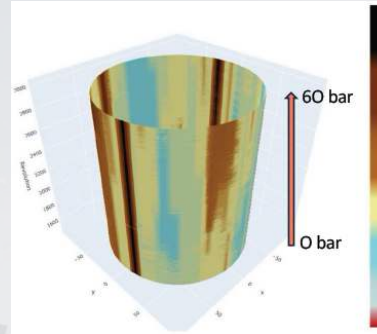
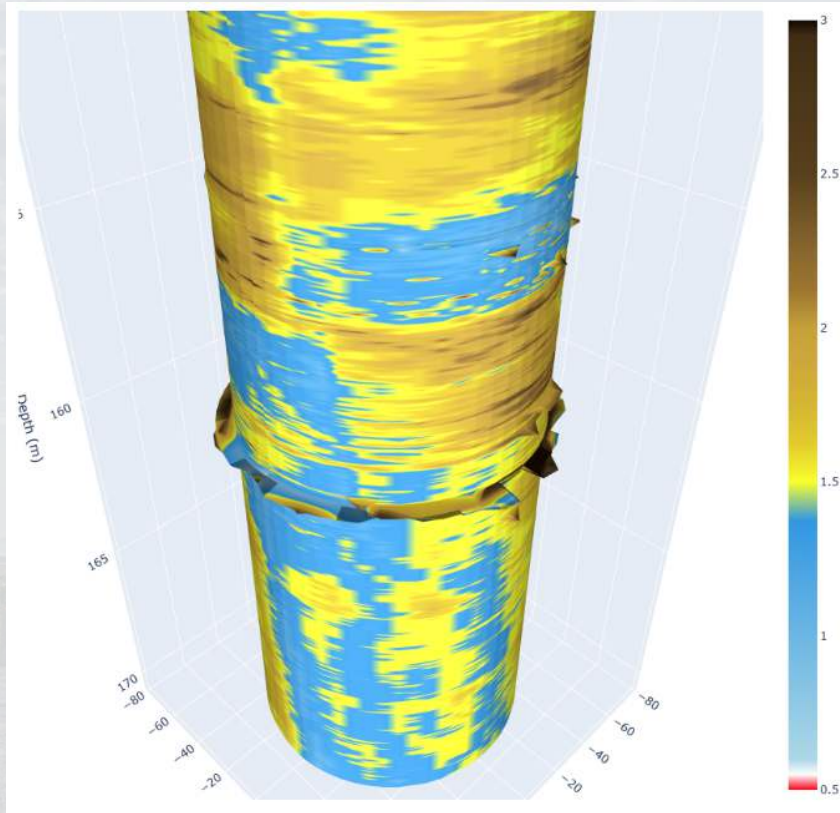
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# Ultrasonic technology

High-resolution inspection and cement evaluation



## ViewSoniX™ capabilities

Specifications and capabilities for well-integrity logging

Cereus Engine and ultrasonic technology overview

Pipe and accessory inspection

High-resolution cement bond log

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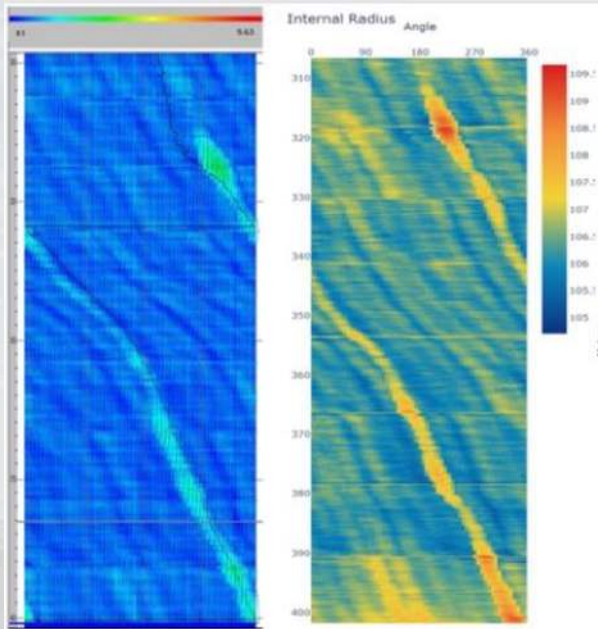


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# Pipe inspection

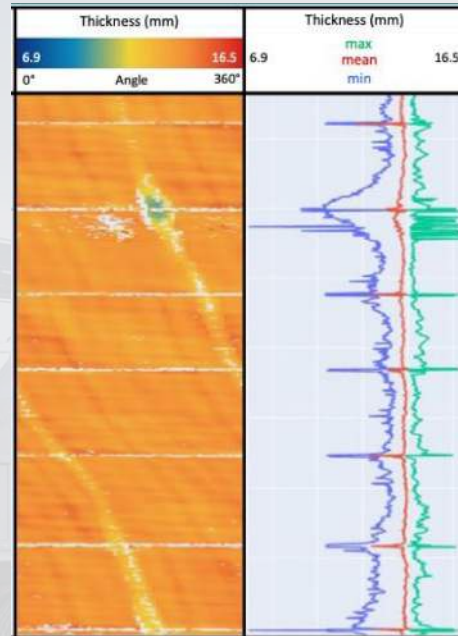
Internal diameter, wall thickness and pipe deformation

## Pipe ID comparison with MFC



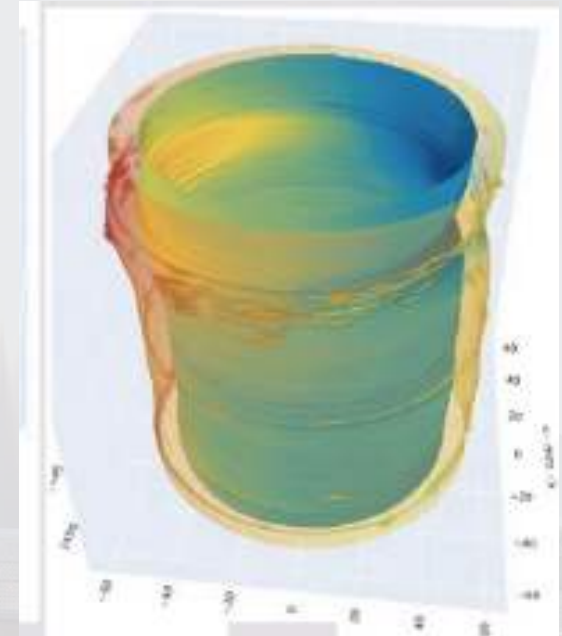
ViewSoniX™ (right) has higher-resolution pipe ID output than MFC (left).

## Wall thickness accuracy



The high-resolution, high-accuracy wall thickness measurement enabled slot recovery where nominal casing outside diameter and MFC internal diameter would not.

## Pipe deformation



ViewSoniX™ detects pipe deformation as well as absolute internal diameter and thickness. An MFC had previously not identified pipe tortuosity, resulting in bottom-hole assembly hold-up.

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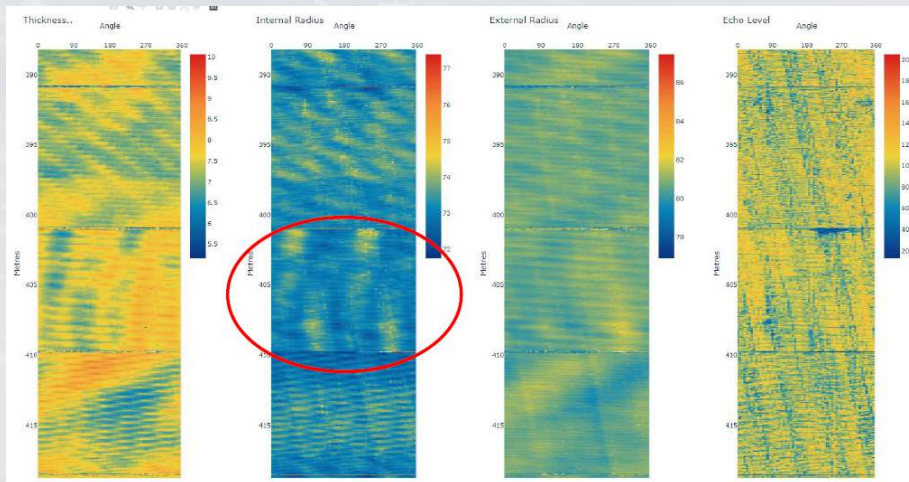


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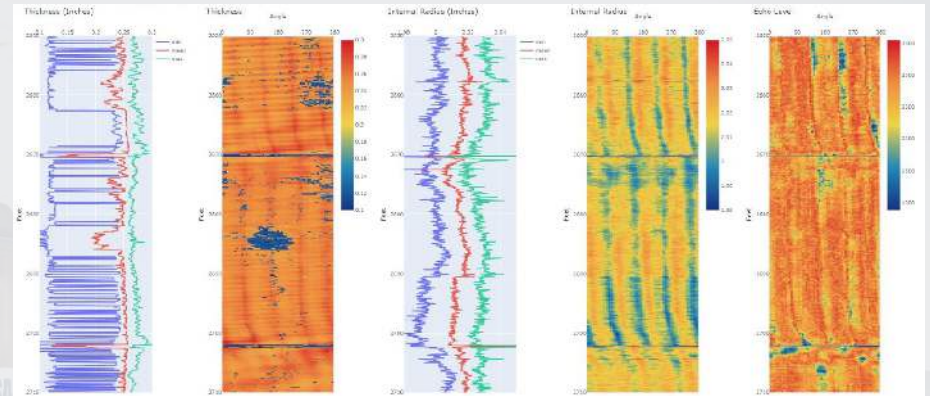
# Corrosion detection

Casing and tubing inspection with completion imaging

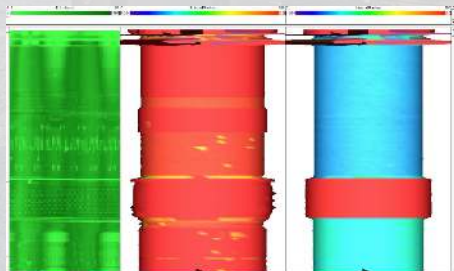
## Internal corrosion example



## External corrosion example



## Frac valve imaging



ViewSoniX™ imaging is fast and economical, producing a fit-for-purpose acoustic image sufficient to confirm that the frac valve was open.

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## Contact Versa-Line

High-Fidelity Ultrasonic Well-Integrity Logging

### The ViewSoniX™ Engine

Casing inspection and  
cement integrity in one tool

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