SEGMENTED THICKNESS TOOL (STT)

Segmented Thickness Tool (STT) is designed to evaluate the metal loss based on emission and measurement of localized electromagnetic fields with the following data processing. STT consists of 8 miniature sensors installed around the circumference inside the tool housing. The segmented orientation of sensors allows the detailed 360° pipe integrity evaluation making the STT a reliable alternative to a multi-finger caliper. The tool allows localizing intervals of general corrosion (extended metal loss zones), pitting corrosion, holes, cracks, parted casings, completion elements, perforations, and worn-out zones. The STT is applicable for corrosion logging as well as leak detection jobs in tandem with North Side FIND.

Applications:

- 360° segmented high-resolution evaluation of the well tubular
- Internal & external corrosion evaluation and monitoring
- Circumferential perforation evaluation
- Localization of holes, cracks, parted casings
- Frac ports opening control

Advantages:

- Not affected by scale deposition
- Determination of small pinholes & pitting
- Could be combined with North Side MBTT/FIND tools for ultimate integrity evaluation up to 4th barrier

Tool Specifications	
Minimum detectable hole size (1st barrier)	0.3”
Chrome pipes evaluation	Yes
Maximum temperature	150°C (304°F)
Maximum pressure	11,600 PSI (80 MPa)
Tool length	1.7 m (5.6 ft)
Tool weight	15.4 lbs (7.0 kg)
Tool diameter	1.65 in (42 mm)
Connections	15/16 SR
Housing material	SS
H_2S resistance	25%
Fully autonomous tool	Yes
Operational time	50 hours
Internal memory	1 Gb