# BOUNDARYTRACKER™ USLIM

## A 2-3/8" DEEP AZIMUTHAL RESISTIVITY TOOL

Well Resolutions Technology

### Features

- Dual spacings and up to three frequencies (400kHz, 2MHz, and 4MHz optional)
- Up to 12 high-quality propagation resistivity measurements
- 16 compensated azimuthal resistivity measurements
- Boundary tracking-while-sliding capability
- Boundary detection range up to 20ft (6m)
- 150°C and 175°C rated
- Compatibility with all types of mud

### Benefits

- Provides high-quality resistivity measurements for geosteering and formation evaluation
- Allows to track bed boundaries while sliding
- Tool serviceability in shop or rigsite

### Applications

- Tracks reservoir boundaries
- Avoids unplanned exits from payzones
- Detects oil-water or gas-water contacts

### Options Available

- H2S resistance upgrades
- Gamma
- Continuous inclination

*A first-of-its-kind azimuthal resistivity tool for coiled-tubing drilling applications.*

### OVERVIEW

The BoundaryTracker™ uSlim represents a new class of deep azimuthal resistivity tool specially designed for coiled-tubing drilling applications. Equipped with a boundary tracking-while-sliding capability, this new tool allows to map bed boundaries while the tool barely rotates.

### DATA DELIVERABLES

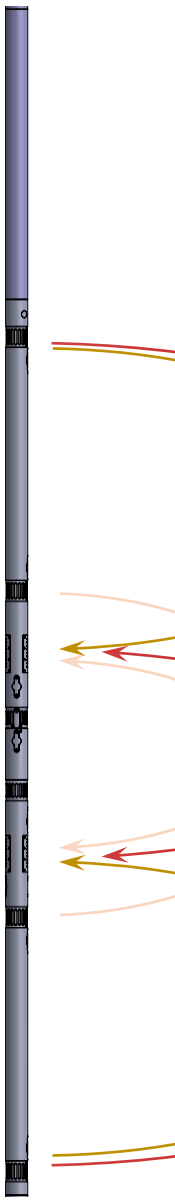
Like its larger-size counterparts, the BoundaryTracker™ uSlim offers 16 fully compensated azimuthal resistivity measurements and up to 12 fully compensated high-quality propagation resistivity measurements. Key measurement data may be transmitted uphole in real time and inverted to produce bed and boundary parameters for use in geosteering or well placement.

### PRINCIPLE OF MEASUREMENT

The BoundaryTracker™ uSlim tool employs a proprietary beam-steering technique to perform azimuthal resistivity measurement while sliding. This new technique allows the tool to track reservoir boundaries while sliding without involving any moving parts.

### INTEGRATION WITH 3RD PARTY BHA

The BoundaryTracker™ uSlim tool can be customized to interface with 3rd party CTD BHAs.



For more info, contact us at: +1 (281) 206-7651 or (281) 206-7675
Email: info@wellresolutions.com
Website: www.wellresolutions.com

HOUSTON, USA

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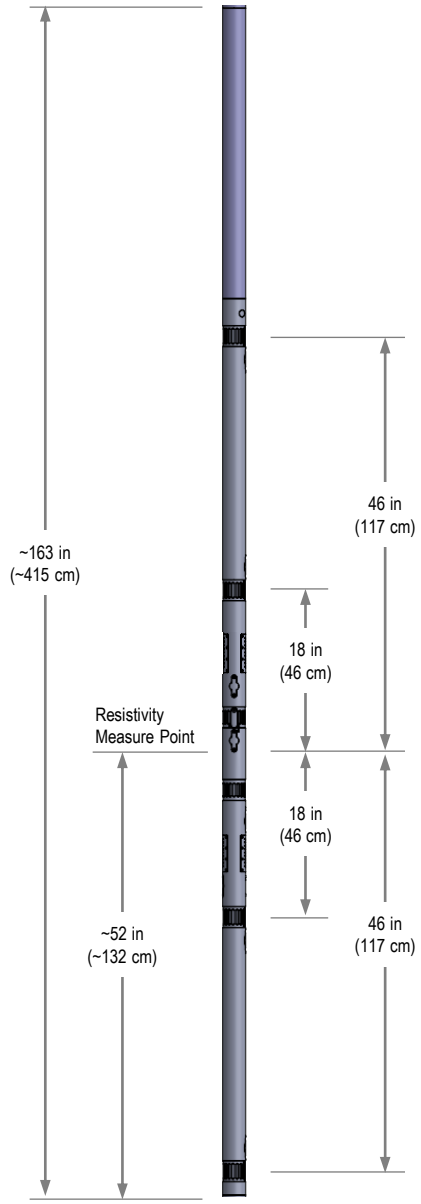
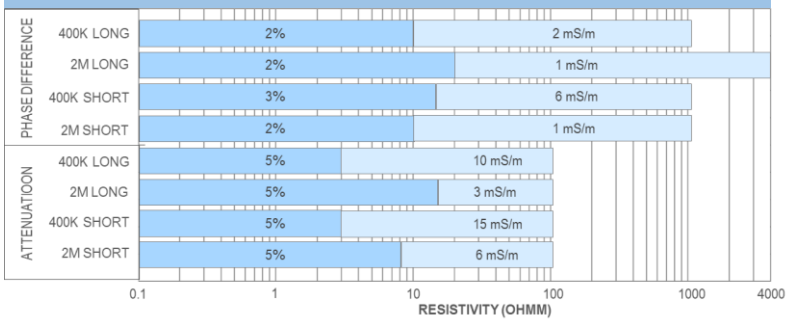
## Specifications




| GENERAL | |
|---|---|
| Tool size | 2-3/8 in |
| Nominal OD | 3-3/8 in |
| Max OD | 2-3/8 in |
| Hole size range | 3-3/4 in – 4-1/8 in |
| Length | 13.6 ft (may vary) |
| Connection makeup torque | TBD |
| Max DLS rotating | N/A |
| Max DLS sliding | 40°/100ft |
| Max operating pressure | 10,000 psi |
| Max operating temperature | 150°C / 175°C |
| Max RPM | N/A |
| Max sand content | 0.1% |
| Max flow rate | 60 gal/min |
| H2S-resistant upgrade | Option |
| Thru bus | Option |
| Power consumption | Configurable |
| **MEASUREMENTS** | |
| Operating frequencies | 400 kHz & 2 MHz (4 MHz option) |
| Coil spacings | 18 in & 46 in |
| Resistivity range | 0.1 – 3,000 ohmm (4,000 ohmm with 4 MHz) |
| Depth of investigation – Propagat. resistivity | Up to 14 ft |
| Depth of investigation – Azimuthal resistivity | Up to 20 ft |
| Continuous Inc measurement | Option |
| RPM measurement | N/A |
| Total gamma | Option |
| Annular pressure | N/A |
| **ACCURACY** | |





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