

Unlocking true reservoir understanding at a seismic scale

TRU-ARMS advanced reservoir mapping services

The new TRU-ARMS™ advanced reservoir mapping service is an evolutionary leap forward in reservoir mapping that illuminates the reservoir up to 300 ft away from the wellbore to maximize reservoir contact and optimize future field development. The TRU-ARMS service delivers three key benefits:

- Achieves mapping objectives in all environments via a step-change in BHA design flexibility
- Delivers industry-leading, dynamic depth of detection in resistive and conductive media
- Provides sharper insights into reservoir distribution and quality using multi-dimensional mapping of lithological and fluid boundaries with embedded confidence analysis

EFFICIENT, INFORMED RESERVOIR INTERPRETATIONS

The TRU-ARMS service enables a step-change in field development by providing operators with sharper insights into reservoir distribution and quality. The service leverages ultra-deep azimuthal resistivity (UDAR) data to unlock a deeper understanding of the reservoir and simultaneously enhances real-time decision-making. The result: greater reservoir contact during drilling and increased opportunities to optimize future field development.

The TRU-ARMS service drives more efficient reservoir interpretation, improved collaboration, and informed development decisions. The clarity and conciseness of the resulting inversion maps allow both domain and non-domain experts to interpret the reservoir with confidence by removing perception bias. Operators can simultaneously make better real-time decisions while identifying future development opportunities in unexplored reservoir sections.

INDUSTRY-LEADING DEPTH OF DETECTION

The TRU-ARMS service introduces several industry firsts, including a transceiver engineered to deliver unprecedented operational flexibility to enable objective-driven bottom-hole assembly (BHA) designs. In addition, the industry's first 3-component, collocated and orthogonal antennas yield a higher signal-to-noise output compared to other UDAR antenna designs.

And, while many geomapping technologies deliver inversion maps that claim detections of hundreds of feet, quantifying the confidence in these inversion results remains challenging. Large scale geomapping capabilities should allow quantification of the confidence in the inversion result.

APPLICATIONS

- Reservoir navigation
- Mapping fluid and lithological boundaries
- Landings and geostopping

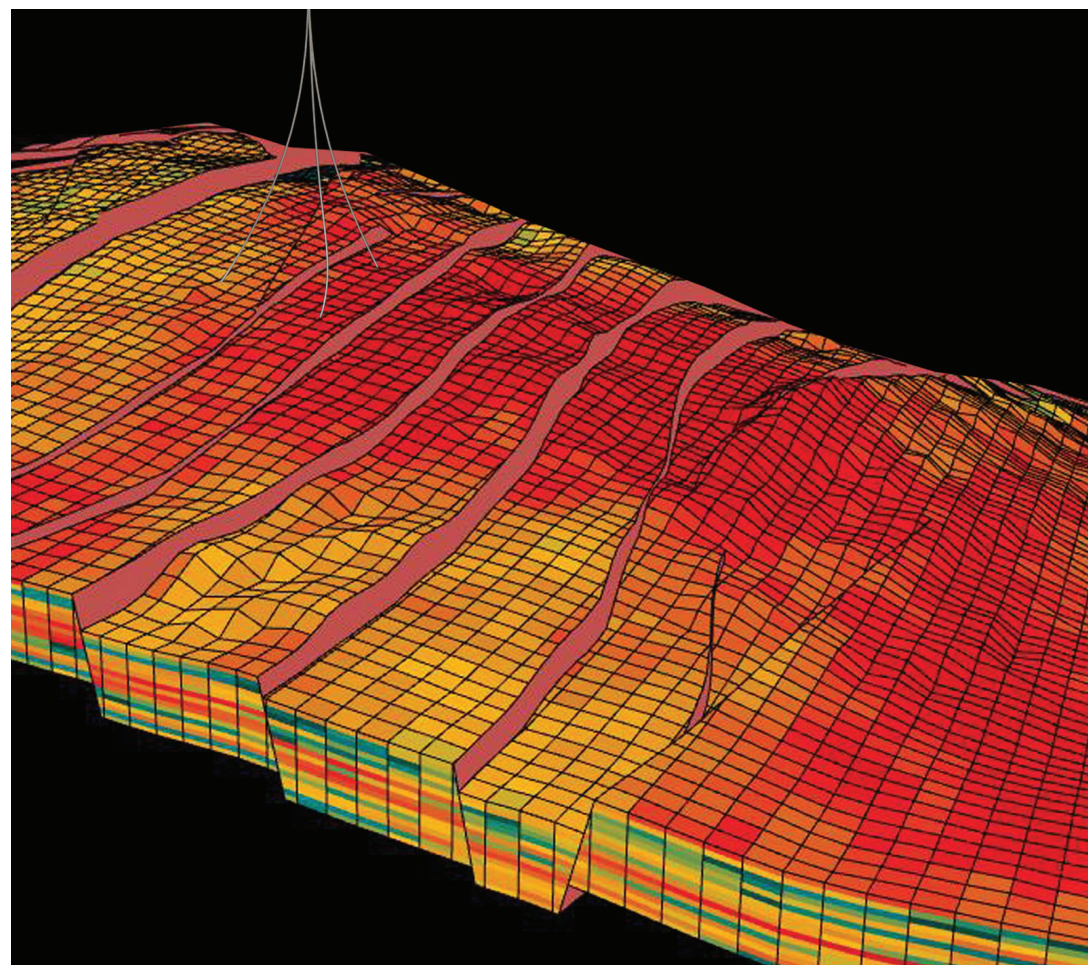
BENEFITS

- Maximized production and recovery with optimized well placement
- Increased net-to-gross
- Improved reservoir architecture mapping of fluid and lithological boundaries
- Optimized field development
- Enhanced volume estimates (refined subsurface model)
- Improved completion designs

MULTI-DIMENSIONAL MAPPING WITH SHARPER RESERVOIR INSIGHTS

The new TRU-ARMS advanced reservoir mapping services has been successfully deployed in various BHA configurations to provide greater telemetry flexibility based on the operator's measurement goals. These configurations successfully achieved the operator's geosteering and geomapping objectives during an extensive offshore field-testing program with both standard mud-pulse and wired-pipe telemetries. Thanks to its flawless execution and exceptional service delivery, the TRU-ARMS service was quickly qualified by a major international operator. The operator's subsurface team commended the exemplary technology stating that "With the TRU-ARMS services, we are mapping the reservoir to decrease reserve uncertainty."

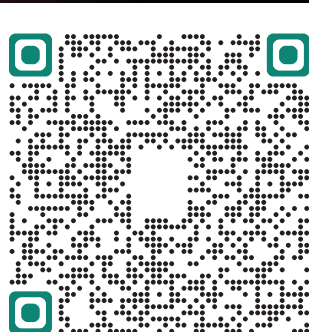
Contact your local Baker Hughes representative to unlock true reservoir understanding at a seismic scale.



The TRU-ARMS service unlocks true reservoir understanding at a seismic scale.

A large 3D visualization of a reservoir with a transceiver tool and data points. The visualization shows a complex, multi-layered structure with various colors (red, orange, yellow, green, blue, purple) representing different geological layers. A central horizontal line represents the transceiver tool, with several vertical lines extending downwards from it, representing data points or measurement locations. The overall scene is set against a dark background, highlighting the intricate details of the reservoir model.

TRU-ARMS™
advanced reservoir mapping services



The service's unique transceiver design allows operators to modify antenna and receiver locations 'on-the-fly' to maximize measurement flexibility.