#### **OILFIELD SERVICES & EQUIPMENT**



# Unlocking true reservoir understanding at a seismic scale

**TRU-ARMS** advanced reservoir mapping services



The new TRU<sup>™</sup>-ARMS advanced reservoir mapping service The TRU-ARMS service drives more efficient reservoir is an evolutionary leap forward in reservoir mapping interpretation, improved collaboration, and informed that illuminates the reservoir up to 300 ft away from the development decisions. The clarity and conciseness wellbore to maximize reservoir contact and optimize of the resulting inversion maps allow both domain and future field development. The TRU-ARMS service delivers non-domain experts to interpret the reservoir with three key benefits: confidence by removing perception bias. Operators can simultaneously make better real-time decisions • Achieves mapping objectives in all environments via a while identifying future development opportunities in step-change in BHA design flexibility unexplored reservoir sections. • 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.

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### **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 bottomhole 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.



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



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