

AziTrak deep reading azimuthal resistivity service

Enhancing reservoir performance and efficiency by optimizing wellbore placement in real time

The Baker Hughes **AziTrak™ deep azimuthal resistivity service** is a fully integrated, measurement-while-drilling (MWD) and logging-while-drilling (LWD) service. It provides real-time, directional, azimuthal gamma ray, deep-reading azimuthal multiple-propagation resistivity, and downhole pressure and vibration measurements from a single sub. These measurements enable optimal wellbore placement and improved reservoir contact in the reservoir sweet spot that results in higher production in high-angle and horizontal wells.

In addition to providing the quantitative multiple propagation resistivity measurements, the orthogonal receiver coils provide azimuthal sensitivity around the wellbore. This enables the identification of the approaching resistivity contrast (formation bed, fluid contact, transition zone, etc.) and ability to estimate the distance to the wellbore as an aid to reservoir navigation. The measurement investigates up to 17 feet radially from the borehole axis.

When run in conjunction with the Baker Hughes Reservoir Navigation Service, the AziTrak measurements also help to assess the distance to boundary with confidence and accuracy. Baker Hughes reservoir navigation experts employ a fully integrated forward LWD response modeling package, featuring proprietary algorithms for all Baker Hughes LWD tools facilitating fast, interactive updates. AziTrak data and other while drilling downhole images can be shared between field and office-based experts to streamline real-time collaboration on critical issues including dip-picking and distance-to-bed-boundary analysis for optimized wellbore placement.

Contact your Baker Hughes representative to learn more about how the Baker Hughes reservoir navigation service with AziTrak is the source of exceptional visibility, reliability, and speed for navigating and understanding a reservoir—and maximizing your ultimate hydrocarbon recovery.

Applications

- Conventional oil and gas reservoirs
- Deep water drilling
- High-angle and horizontal wells
- Brownfield production enhancement
- Field development with infill drilling

Benefits

- Improved reservoir contact for maximizing production and recovery potential
- Provides early detection of remote boundaries
- Reduced non-productive time (NPT) and eliminates sidetracks
- Real-time display of reservoir boundaries