

StrataStar™ Deep Azimuthal Resistivity Service

MULTILAYER MAPPING FOR PRECISE WELL PLACEMENT

OVERVIEW

Regardless of the nature or complexity of the reservoir, wells accurately placed in the most productive zones help operators maximize asset value. The StrataStar™ deep azimuthal resistivity service from Halliburton Drilling delivers advanced measurements and processing to improve real-time reserves evaluation while optimizing borehole placement to increase well production. Encompassing the robust, compact design of the iStar™ intelligent drilling and logging platform, the StrataStar service embodies innovation by combining a novel antenna, mounted on a modular tool, with a suite of advanced inversion techniques. This service provides better data interpretation, widens the volume investigated, and increases the amount of information collected in real time to precisely steer wells where they will most benefit operators.

STAY WITHIN THIN LAYER BOUNDARIES

The StrataStar service makes deep azimuthal measurements up to 30-feet around the wellbore. A sophisticated processing algorithm inverts the data and maps the positions, thicknesses, and resistivities of interbedded rock and fluid layers. Real-time visualization of the surrounding geology and fluids provides key information required to precisely place the well and maximize reservoir contact.

BETTER RESERVOIR CHARACTERIZATION WITH REAL-TIME ANISOTROPY

The StrataStar service also provides shallower multi-frequency measurements over four spacings to deliver a comprehensive understanding of resistivity across the widest range of fluids and rocks. The innovative design of the proprietary crossed-transmitter antenna enables the computation of anisotropy in real time, enhancing formation characterization. Real-time access to R_v and R_h in a relatively undisturbed environment drives a more accurate calculation of the water saturation, further supporting advanced petrophysical analysis of the reservoir.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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BENEFITS

- » Adjust the well path to maintain desired distance from multiple bed boundaries
- » Detect water zones at distance and avoid penetration
- » Map formation structures and fluid distributions
- » Acquire accurate formation resistivity for detailed formation and fluid characterization
- » Obtain anisotropy for improved reserve evaluation
- » React earlier to unforeseen geological changes and stay within the productive zone

FEATURES

- » Visualizes reservoir structure 30 ft (± 9 m) above and below the well
- » Provides phase shift and attenuation compensated resistivity from four spacings at two frequencies
- » Acquires high-resolution azimuthal resistivity images
- » Calculates R_v , R_h , and relative dip at any hole angle