Radian® Azimuthal Gamma Ray and Inclination Service

COST-EFFECTIVE GEOSTEERING SOLUTION FOR UNCONVENTIONAL RESERVOIRS

OVERVIEW

Are you looking to increase barrels of production, while minimizing costs from your unconventional wells? Some formations contain natural gamma ray signatures that are complex and have little variations. This makes it difficult for conventional gamma ray tools to stay within the reservoir, causing increased well time from costly sidetracks and decreased reservoir contact, resulting in fewer barrels. The Radian® Azimuthal Gamma Ray and Inclination Service mitigates these geosteering challenges and provides real-time, high-quality gamma ray images, thus enabling better geosteering decisions, optimal well placement, and maximum reservoir contact. This can result in greater production and lower costs in unconventional reservoirs.

BETTER IMAGES. BETTER WELL PLACEMENT. BETTER PRODUCTION.

The Radian service utilizes four highly sensitive gamma ray detectors arranged evenly around the circumference of the tool, allowing it to generate real-time azimuthal images (whether rotating or not) and providing more details of the reservoir structure. This gives operators enhanced reservoir understanding, enabling real-time geosteering decision to optimally place the well in the target reservoir and to maximize reservoir contact. The optional inclinometer package continuously monitors the orientation of the well and helps minimize wellbore tortuosity. For maximum flexibility, the tool can be run as a standalone tool, or positioned anywhere in the bottomhole assembly in combination with any Sperry Drilling measurement-while-drilling/logging-while-drilling (M/LWD) and directional drilling services to suit a variety of applications.

With a clear view of the surrounding geology combined with our technical expertise and reservoir insight, the Radian service can optimize the stratigraphic placement of laterals and maximize reservoir contact for increased production. By adding our LithoFact™ service and FracInsight® Analysis, operators can maximize asset value and get the most out of their fracturing operation by knowing “where to frac.”

FEATURES

» High detector sensitivity provides clear images and precise bulk gamma ray measurements
» Optional survey-quality inclination measurements
» Compact, modular design is compatible with all Sperry Drilling M/LWD and directional drilling and telemetry types to suit a variety of applications
» SOLAR® rating is available for operation up to 347°F (175°C) and 20,000 psi (138 MPa)

BENEFITS

Drill to Produce
» Improve well placement accuracy and maximize reservoir contact with a clear view of the surrounding geology while in rotating or sliding mode
» Reduce uncertainty and optimize well placement by easily distinguishing between formation layers with low gamma ray contrast

Enhance Reservoir Understanding
» Optimize well production by knowing your reservoir’s characteristics and structure

Reduce Well Time
» Decrease wellbore tortuosity by obtaining immediate feedback from the inclination measurements, making it easier to run casing and completion strings

For more information about technical specifications, contact your local Halliburton representative, visit us on the web at www.halliburton.com, or email sperry@halliburton.com

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