

GeoTap® IDS Fluid Identification and Sampling Sensor

DELIVERS REAL-TIME RESERVOIR CHARACTERIZATION ON LWD, REDUCING WELL TIME AND COSTS

OVERVIEW

In high-cost environments, such as deepwater, operators need to be able to acquire and evaluate formation fluid samples quickly and cost-effectively. The GeoTap® IDS fluid identification and sampling sensor from Halliburton Sperry Drilling enables reservoir fluid samples to be recovered with logging-while-drilling (LWD) technology. Operators can capture, recover, and identify multiple samples of uncontaminated formation fluids within hours, rather than days, thus reducing well time and costs associated with wireline sampling, maximizing asset value.

FAST AND ACCURATE DECISION MAKING ENHANCES RESERVOIR UNDERSTANDING

The GeoTap IDS sensor provides true formation testing while drilling, minimizing contamination from drilling fluids and extending pump-out times for clean samples. Valuable data are more rapidly recovered, leading to faster and more accurate decision making such as optimizing wellbore placement to achieve maximum production over the life of the reservoir. Fluid properties such as pressure-volume-temperature (PVT) can help better plan and design future facilities and completion production.

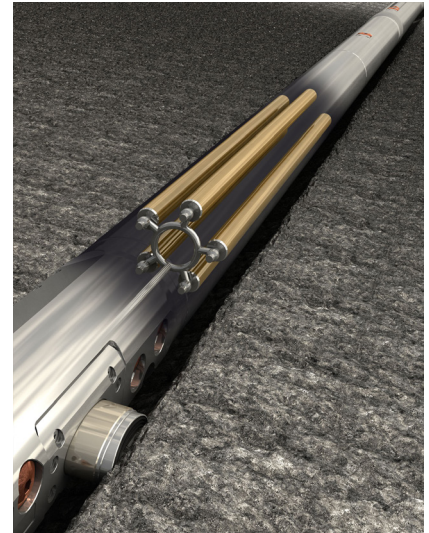
REDUCE WELL TIME WHEN DRILLING LOW-ANGLE PILOT WELLS

In some locations in deepwater operations, it is a standard procedure to drill an initial low-angle directional pilot well to run gravity-conveyed logging tools for reservoir analysis, and then cement and abandon it before drilling the horizontal well. Pilot wells are needed to confirm the top and base of reservoir targets, and to help ensure precise seismic depth correlation. They also enable formation pressure testing, triple-combo logging, and fluid sampling for characterization, flow evaluation, and other analyses. The GeoTap IDS sensor, in combination with LWD formation evaluation sensors, eliminates the time and expense of drilling low-angle pilot wells. Instead of constructing a special well to perform pressure testing and sampling on wireline, the GeoTap IDS sensor can be used in all sections of the new well, providing real-time pressure testing while drilling and rapid fluid identification and sampling, reducing the risk and uncertainty.

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The GeoTap® IDS fluid identification and sampling sensor eliminates the need for wireline operations by obtaining multiple fluid samples in real-time, completing a full package of formation testing while drilling capabilities.

BENEFITS

Maximize Asset Value

- » Improve economic performance in high-cost deepwater environments

Enhance Reservoir Understanding

- » Obtain representation fluid samples for real-time reservoir characterization
- » Reduce risk and uncertainty in complex reservoirs
- » Reduce drilling risks by optimizing mud weight
- » Improve geocorrelation accuracy and geosteering capabilities

Reduce Well Time

- » Provide data within hours, not days, through reduced pump-out time
- » Eliminate costly wireline trips and associated rig time

FEATURES

- » On-demand, real-time identification of reservoir fluid properties
- » Timely downhole capture and surface recovery of multiple fluid samples
- » Increased success of sample integrity with quality equal to or better than wireline
- » Low contamination (<5%) samples obtained within 1 to 4 hours after drilling
- » Fluid ID options:
 - Fluid Density
 - Bubble Point
 - Compressibility
 - Temperature
 - Pressure