

GeoTap[®] Formation Pressure Tester Service

PROVIDING DIRECT FORMATION PRESSURE MEASUREMENTS ON DEMAND

OVERVIEW

The GeoTap[®] formation pressure tester service from Halliburton Sperry Drilling provides real-time formation pressure measurements. It bridges the critical gap between drilling safety and optimization. By providing early and reliable measurements of key reservoir properties, the GeoTap formation pressure tester service enhances reservoir understanding and completion design in real time.

MAXIMIZE ASSET VALUE BY REDUCING WELL TIME ASSOCIATED WITH WIRELINE TESTING

The GeoTap tester obtains direct pore-pressure measurements with accuracy and precision while eliminating the time, risk, and cost associated with running pipe-conveyed wireline test tools, maximizing asset value and increasing productivity for the operator. It also measures annular and bore pressure while drilling, providing accuracy in continuous, real-time hydrostatic pressure, and equivalent circulating density (ECD) information. This aids in determining and maintaining optimal mud weight, reduction in formation damage, as well as increasing the rate of penetration (ROP) and operation safety. When testing, the tool is positioned adjacent to the target using logging-while-drilling (LWD) sensors for correlation. The test configuration is transmitted to the tool by mud-pulse telemetry via the Geo-Span[®] downlink system.

REAL-TIME FORMATION PRESSURE TESTS ON DEMAND

The GeoTap sensor extends a wireline-type pad/probe piston assembly to seal against the borehole wall. The “snorkel” feature extends further to penetrate the filter cake layer, providing coupling to the formation face. The sensor acquires drawdown and build-up pressure transients to determine formation mobility and permeability. Pressure tests may be performed while circulating, if no motor is in the bottomhole assembly (BHA) – thus facilitating a real-time transmission of pressure and quality control information, while reducing the risk of tool sticking or well-control problems. The two-way communication system also allows a test to be interpreted and reconfigured within different parameters.

For more information, contact us at sperry@halliburton.com or visit us on the web at www.halliburton.com



FEATURES

- » Total test control, including selection of variable drawdown rates, buildup times, and test interruption via Geo-Span downlink service
- » Smart test mode with auto-selected pre-test volumes for optimized pressure testing
- » High-resolution test data can be transmitted after the test using the Replay[®] Real Time service
- » Utilizes Halliburton INSITE[®] rig information management system for real-time data acquisition, networking, presentation, and analysis

BENEFITS

Drill to Produce

- » Increase operation safety
- » Determine optimal mud weight and manage ECD
- » Increase drilling efficiency
- » Determine precise overbalance for maximizing ROP

Enhance Reservoir Understanding

- » Improve formation evaluation
- » Identify fluid contact points
- » Determine reservoir connectivity/ compartmentalization, and depletion

Reduce Well Time

- » Monitor hole-cleaning operations continuously with pressure-while-drilling, while reducing formation damage due to swab/surge
- » Save time and money by reducing rig down time associated with wireline testing

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