APS Technology Announces General Availability of Dynamic Directional Sensor (DDS™)

New Sensor Offers Improved Dynamic Accuracy, Shop-based Stability Verification without Complex Lab Equipment

For Immediate Release

Wallingford, CT, US – March 28, 2014 – APS Technology, Inc., a leading provider of MWD/LWD, drilling optimization and vibration management products for the oilfield today announced the general availability of their new Dynamic Directional Sensor, or DDS, for use with APS’s SureShot™ MWD system.

Like most MWD directional sensors, DDS includes a tri-axial fluxgate magnetometer and three quartz accelerometers. However, DDS adds simultaneous 16-bit analog-to-digital conversion of all channels to assure the best possible directional measurement. This results in more accurate directional surveys, including rotating inclination, for today’s demanding long-lateral applications. A unique “verification” feature leveraged from magnetometer designs used in NASA spacecraft allows for bench-top checking of long-term magnetometer stability.

DDS has also benefited from state-of-the-art reliability assurance techniques applied during design qualification and production. HALT (Highly-Accelerated Life Testing) was used in the design phase to identify and correct the weakest points in the design by stressing test assemblies well beyond their operating limits. All magnetometer coils are machine-wound in a Class 10,000 clean room. HASS (Highly-Accelerated Stress Screening) is used to identify and correct weak assemblies in production before they get to the field. The stringent reliability measures have led to an initial MTBF exceeding 4,500 hours.

“APS has raised the bar for directional sensor performance and operational support,” said John Hickey, Vice President, MWD/LWD Products at APS. “DDS offers the best while-rotating accuracy in the industry and, starting in Q2 of 2014, local R&M support in China, Russia, Dubai and the United States.”

APS now has more than 70 DDSs in operation around the world.

About APS Technology

APS Technology, Inc. is a leading provider of MWD/LWD, drilling & optimization (rotary steerable and drilling dynamics), and vibration management products for oil and gas drilling. APS has deep engineering expertise in the design, development and manufacture of oilfield electromechanical, instrumentation, sensor and software products, shock and vibration isolation designs, stress analysis for static and rotating conditions, and mechanical and electronics analysis for harsh environments. APS's customers include all of the major integrated multinational oilfield service companies, independent directional drilling companies, MWD service companies and oilfield companies engaged in non-drilling related services. APS also provides product development services and proprietary products to customers worldwide.

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