



## **Independent and National MWD Service Companies Grow Businesses with Commercial Release of APS Technology's Wave Propagation Resistivity (WPR™) Tools**

*Tool Enables Companies to Offer New LWD Service with Industry-standard Results; Compete Against Majors*

### **For Immediate Release**

Wallingford, CT and Houston, TX -- January 15, 2010 -- APS Technology, Inc., a leading provider of innovative technologies for drilling performance, today announced the commercial release of their WPR propagation resistivity tools after four successful field trials. WPR is a compensated geometry, dual frequency (400 kHz & 2 MHz), dual-spacing formation evaluation tool designed for logging-while-drilling (LWD) and measurements-after-drilling (MAD) services in all well types. The tool's symmetrical design with central receive antennas delivers direct, real-time spatial compensation, eliminating errors due to mud invasion between measurements, borehole rugosity and receiver channel differences.

"We're very pleased with the WPR logs produced to date," said John Hickey, MWD Product Line Manager at APS Technology. "But more importantly, so are our customers. It's gratifying to see the speed with which our independent and national service customers have accepted this product, and we're looking forward to worldwide WPR deployments in Q1 of 2010."

WPR operates in all mud types, including oil-base and salt-saturated muds, and provides real-time resistivity with flexible transmission formats. High-resolution data is stored in downhole memory which can be retrieved and processed during trips. Downhole storage in the WPR is 32 MB, with an additional 32 MB in the MWD tool.

The tool's applications include geosteering, correlation, pore pressure trend analysis, casing point selection, wireline replacement, logging while tripping and logging with and without the flow switch enabled (for air and foam-drilled wells). Remote access capabilities include diagnostics, real-time and post-survey transfer of data via WITSML and remote geosteering. APS provides a complete set of software-enabled borehole corrections and applications with WPR, including formation analysis and a well-modeling geosteering front-end.

WPR interfaces with APS's SureShot™ Directional plus Gamma (DG) MWD system, and uses industry-standard antenna spacings and dielectric corrections. The tool offers industry-standard vertical resolution and depths of investigation, enabling computation of True Resistivity ( $R_t$ ) values for fundamental log interpretation. The complete SureShot plus WPR system operates to 150°C (175°C optional), and is powered by batteries, turbine alternator or batteries plus turbine alternator. WPR is available in 3.5 inch (89 mm), 4.75 inch (121 mm), 6.75 inch (171 mm), and 8.0 inch (203 mm) nominal diameters. The 4.75, 6.75 and 8.0 inch tools offer a Pressure-While-Drilling (PWD) option which measures annular and bore pressures up to 20 kpsi (137.9 MPa).

### **About APS Technology**

APS Technology, Inc. specializes in the design, development and manufacture of electromechanical, instrumentation, sensor, and software designs for the oilfield and other harsh environments. APS has deep engineering expertise in oilfield drilling and sensor equipment, shock and vibration isolation designs, and stress analysis for static and rotating conditions. APS's customers include all of the major integrated multinational oilfield service companies, independent directional drilling companies, MWD

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service companies and oilfield companies engaged in non-drilling related services. APS also provides engineering analysis, product development services, and proprietary products to customers worldwide.

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