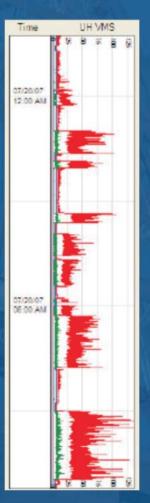
GEOTARGET DRILLING SERVICES

SureShotTM Vibration Memory Module (VMMTM)

Product Parameters 69.8 in. (1,773 mm) Length (directional sensor+VMM) 15.8 in. (401 mm) longer than standard SureShot sensor Outside Diameter 1,875 in. (48 mm) Measurement 4 ± 250 g Accelerometers, Measurement Devices tow-axis fluxgate magnetometer Accelerometers - 1,000 samples/s Data Sampling Rate Magnetometers - 100 samples/s Real-Time Telemetry Configurable at rig site Memory Size 8 MB Memory Recording Average and peak data stored every 4 Seconds; 40 seconds of raw data samples stored at 1,000 samples/sec when each threshold is first crossed Data Recorded: Max. Lateral Vibration 0 to 354g RMS Lateral Vibration 0 to 354g Max. Axial Vibration 0 to 250g **RMS** Axial Vibration 0 to 250g ±1,500 RPM (± 157 rad/s) Rotation Rate Memory Dump Connect to sonde at surface to program and dump memory Environmental Temperature 0° to 347° F $(0^{\circ} \text{ to } 175^{\circ}\text{C})$ 20,000 psi Pressure (137.9 Mpa)

Advanced Systems for Drilling Performance™



Axial/Lateral Vibration vs. Time



