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Formation Testing in Hostile Environments

The new Schlumberger MDT Forte qualified rugged system and the MDT Forte-HT high-temperature version deliver robust downhole-fluid analysis, fluid sampling, and transient testing to meet the challenges of oilfield operations (Fig. 4). The two new platforms have been fully redesigned and reengineered to tolerate excessive vibration at all stages of use: from low-frequency shaking during transit to high-impact shock and vibration downhole at extreme temperatures. The redesigned electronics system incorporates surface-mounted components on a ruggedized chassis that overcomes conventional fragility of electronics when operating in tough logging conditions. Qualified for 100 operating hours at temperatures up to 400°F, the system is suited for operations in the most challenging environments, including deep water, drillpipe conveyance, high-pressure/high-temperature wells, and remote operations. These systems extend the reliability, efficiency, and applicability of the system platform while minimizing operational risks. **JPT**

► For additional information, visit www.slb.com/mdtforte.

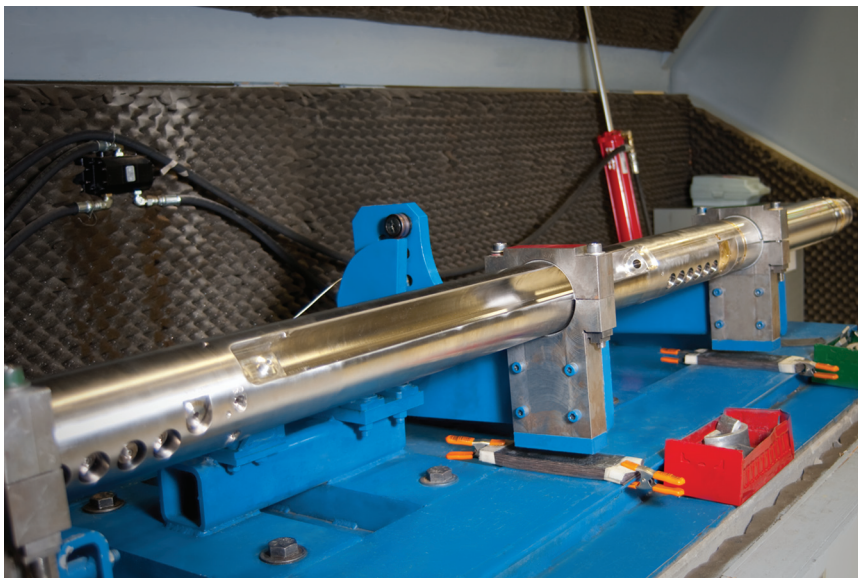


Fig. 4—Schlumberger's repetitive shock testing of its MDT Forte-HT platform to as much as 250 g is part of the extended qualification process.