Offshore Drilling and Completion
Natural Gas Processing and Handling
HP/HT Challenges
History Matching and Forecasting

SPE Board Nominations
Growing Demand for Proppant
New GOM Containment Systems
**HP/HT Downhole Gauge**—Schlumberger’s Signature quartz gauges offer precise, reliable pressure measurements in the most-extreme environments. By use of the latest 100%-ceramic multichip components bonded onto a single substrate, the gauges can withstand pressures up to 30,000 psi at temperatures of 410°F, while delivering high-resolution pressure measurements at recording-rate intervals as short as 0.1 seconds. The new long-life battery and single-substrate-multichip module with high-capacity memory combine to ensure service life of up to 1 year. Accurate answers on permeability-thickness, skin, boundaries, and volumes allow operators to see beyond the near-wellbore region to identify detailed reservoir features that can affect development plans significantly. These gauges run inside a compact carrier (Fig. 4) that minimizes the effect on the downhole-test-string design. 

For additional information, visit www.slb.com/Signature.