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Combined system improves downhole reservoir testing

The Schlumberger Quartet high-performance downhole reservoir testing system that, according to the company, delivers high-quality pressure measurements and fluid samples with increased safety and efficiency for better reservoir testing.

The Quartet system integrates four testing technologies into one string to allow the operator to isolate, control, measure, and sample in a single run. The downhole test string offers benefits over conventional test strings, including a shorter string design, lower operating pressure, less nitrogen, and fewer seals and connections. In addition, drill collars and slip joints are eliminated from the string.

Each of the four technologies of the Quartet system is designed specifically for reservoir testing. The CERTIS high-integrity reservoir test isolation system provides single-trip isolation and retrieval. The IRDV intelligent remote dual valve enables independent, fast-acting dual valve control. The CQG crystal quartz gauge delivers pressure measurements with high resolution and minimal drift for precise reservoir mapping. SCAR inline independent reservoir fluid sampling captures contaminant-free fluid samples independently or sequentially at or above reservoir pressure in non-reactive, individually pressurized chambers.

www.slb.com/Quartet.

A field engineer prepares the Quartet string for a reservoir test. (Photo courtesy of Schlumberger)