Offshore Logistics

Visualization
Drilling and Completion Fluids
Reservoir Management
Commercializing Gas Assets
New downhole fluid measurements introduced

Schlumberger has released the InSitu Family reservoir fluid measurements. These measurements are acquired with the InSitu Fluid Analyzer system, which delivers the next generation of measurements for real-time downhole fluid analysis (DFA). The InSitu Family portfolio comprises products that measure:

- hydrocarbon fluid composition;
- reservoir fluid gas-oil ratio;
- reservoir fluid CO₂;
- reservoir fluid density;
- reservoir fluid color;
- reservoir fluid fluorescence; and
- reservoir fluid pH.

Quantitative fluid measurements that were previously unachievable from wireline technology are now possible downhole and in real time. By investigating fluids at the reservoir, a deeper insight to fluid composition and distribution is gained for improved reservoir understanding.

“Operators no longer have to wait for samples to be returned to the surface for analysis,” said Zied Ben Hamad, marketing and technology manager, Schlumberger Wireline. “This real-time information helps operators confirm assumptions on reservoir compartmentalization and make informed decisions on completion and surface facility design.” Fluid Profiling analysis with InSitu Family measurements gives further insight to reservoir fluid distribution and variation. This is made possible with the Schlumberger Quicksilver Probe focused fluid extraction tool that acquires reservoir fluid with ultra-low or no contamination for InSitu Fluid Analyzer DFA.

Characterization of the reservoir fluid system is extended from a single well to multiple-well (field-based) applications, allowing field personnel to quantify compositional gradients and identify zonal connectivity. In development for five years, the InSitu Family portfolio has been field tested worldwide.

— Rebecca Torrellas, Managing Editor