

Maxima Frac straddle packer

Expand testing and sampling to reservoirs once considered inaccessible

The **Maxima™ Frac straddle packer** module is the latest addition to the Baker Hughes fluid characterization and testing portfolio. Featuring two custom-designed inflatable packer elements, the packer isolates a 1-meter zone of the borehole, enabling reliable testing and sampling in ultralow mobility and micro-frac in extremely hard rock formations.

Fully compatible and combinable with all service modules in the **Reservoir Characterization Explorer™ (RCX™) service platform** and with a market-leading 10,000-psi differential pressure working limit in 8 1/2-in. hole sizes and 6,000 psi in 12 1/4-in. hole, the Maxima Frac straddle packer expands the range of testing in reservoirs that were previously inaccessible to conventional testing tools. The active hydraulic retract mechanism ensures the elements are retracted fully, ensuring safe pull out of hole even after losing communication to the tool.

Formation fluid sampling in low-mobility rocks. The straddle packer's highly durable mandrel assembly reliably handles high differential pressures, allowing it to collect formation fluid samples from low-mobility rocks.

Propagation studies of induced fractures in hard rock. The Maxima

frac straddle packer allows injection pressures of 10,000 psi over the hydrostatic pressure in 8 1/2-in. hole sizes and 5,700 psi in 12 1/4-in. hole. As a result, it allows fracturing of much harder rock formations during micro-frac testing than previous generations of tools. Operators can confidently determine yield strengths and track fracture growth in extremely hard rock reservoirs.

Deep transient analysis farther from the wellbore. The Maxima Frac straddle packer's ability to handle high pressure differentials helps ensure higher flow rates for deep transient analysis. Combining the straddle packer with high-rate pumps increases the depth of investigation for deep transient analysis by up to three times compared to conventional analysis tools.

With successful application on caprock integrity evaluation to ensure long-term CO₂ containment as well as seal verification and fracture propagation studies in CCUS projects Maxima Frac delivers results where others fall short.

Contact your Baker Hughes representative today to learn how the Maxima Frac straddle packer can expand your testing capabilities in hard-rock, low-mobility formations.

Applications

- Ultralow mobility reservoir sampling
- Micro-frac analysis in ultrahard rocks
- Transient analysis requiring deeper depth of investigation
- Micro-frac analysis for CO₂ injection feasibility in saline aquifers and depleted reservoirs
- Caprock integrity evaluation to ensure long-term CO₂ containment
- Seal verification and fracture propagation studies for CCUS projects
- Transient analysis for geomechanical modeling and injection strategy optimization

Benefits

- Combines fully and easily with all RCX service modules
- Achieves objectives in challenging high-solids and LCM mud thanks to full-area filters
- Accurately monitors flowing temperature of the fluid with in-line temperature probe
- Enhances formation pressure accuracy with an in-line quartz pressure crystal and zero-depth offset
- Provides high deployment versatility with standard elements that cover both water- and oil-based mud systems