

RCX CHITON straddle packer

Mitigate risk and operate efficiently
in challenging reservoirs

The **RCX™ CHITON straddle packer** expands the operating envelope of sampling and testing in challenging reservoirs and delivers a safer and more efficient deployment.

When sampling and testing within extremely complex reservoirs, there is always concern about deploying inflatable packers. Multiple settings can cause permanent deformations that lead to swabbing on the trip out of the well, while also increasing the risk of becoming stuck.

Ensure safe and efficient deployment

The RCX CHITON straddle packer includes an active hydraulic mechanism that enhances the elements retraction in addition to natural deflation. Additionally, the new design includes contra-wound elements delivering superior retraction properties with minimal plastic deformation. These features prevent any sticking or deployment risks.

Enhanced drawdown capability

The RCX CHITON enables faster sampling in high-overbalance and ultra-low mobility reservoirs within challenging wells due to its enhanced differential pressure capability.

The advanced applications of mini-DST testing and vertical interference testing (VIT) allows for a better understanding of the reservoirs.

Increased injection pressure

The increased injection pressure enhances the micro-frac testing capabilities in high-strength formations. As a result, the ability to investigate an extended range of formations is possible—overcoming testing limitations in formations that can be incredibly difficult to fracture.

Improved flexibility and versatility

The RCX CHITON can be combined with RCX platform, which has proven track record of reliable operations in hostile and challenging environments. Inline temperature and pressure sensors monitor the flowing temperature of the fluid and determine formation pressure with zero offset respectively.

To learn more about how the RCX CHITON straddle packer can reduce the risk and complexity of sampling and testing in extremely tight reservoirs contact your Baker Hughes representative.

Applications

- High-pressure environments
- Unconsolidated formations
- Ultra-low mobility reservoirs
- High-overbalanced formations

Benefits

- Reduced deployment risk
 - Active hydraulic mechanism
 - Superior retraction capability
 - Minimizes plastic deformation
 - Minimal inflation and deflation times
 - Multiple settings in single decent
- Enhanced drawdown capability
 - Delivers faster sampling
 - Operates in high-overbalanced environments
 - Conducts Mini-DST and VIT testing
- Increased injection pressure
 - Enhances Micro-FRAC testing capability
 - Extends the range of formations that can be investigated
- Improved flexibility and versatility
 - Fully compatible with the RCX platform
 - Inline temperature and pressure sensors



Specifications

Temperature rating	350°F (176.7°C)
Pressure rating	25,000 psi (172.37 MPa)
Minimum borehole size	5 ⁻⁷ / ₈ in.
Maximum borehole size	14 in.
Outside diameter	4 ⁻³ / ₄ in. (borehole dependent)
Maximum differential pressure	7,000 psi (48.26 MPa) in 6 in. borehole