

RCX Sentinel focused sampling service

Get cleaner, faster, safer formation fluid samples

The **RCX™ Sentinel focused sampling service** from Baker Hughes delivers a cleaner formation fluid sample in less time than conventional fluid sampling methods. It permits reservoir engineers and petrophysicists to make more informed decisions and reduces rig time, costs, and risk.

The RCX Sentinel service uses the Baker Hughes **Reservoir Characterization eXplorer™ (RCX™) service platform**, which has a proven track record of reliable operations. Focused sampling is achieved real-time monitoring of high-resolution pressure gauges and the independent control of two pumps connected to separate flow areas within the concentric packer. Contaminated fluid is isolated into the perimeter inlet, allowing cleaner fluid to pass to the inner flow area where the samples are taken.

A multi-tank carrier provides uninterrupted sampling without the pressure disturbances that are inevitable with sequential operation. This reduces the risk of contaminants entering the flow area due to pump interruptions. Pumps are synchronized automatically, ensuring that the pure fluid flow achieved by the RCX Sentinel

service reaches the single-phase tank without contamination. The multi-tank carrier increases the number of single-phase samples attainable in one run from 28 to 52.

The service operates in high- pressure/ high-temperature (HP/HT) environments with temperatures and pressures up to 375°F (191°C) and 30,000 psi (2,068 bar). The data gathered integrates with core data and open hole logs to enable operators to perform early and robust petrophysical evaluations.

Contact your Baker Hughes representative to learn how the RCX Sentinel service can enhance your formation evaluation with cleaner samples.



Applications

- Deepwater wells
- HP/HT environments
- Requirement for PVT samples with minimal contamination

Benefits

- Reduces rig time, costs, and risks
- Provides cleaner samples faster
- Obtains large sample volumes
- Operates in hostile well environments
- DOT transportable for easy setup



Mechanical Specifications

Instrument composition	Titanium for accurate H ₂ S determination
Temperature rating	375°F (190°C)
Pressure rating	30,000 psi (206.8 MPa) HP version
Borehole size - min	5.88 in (14.94 cm)
Borehole size - max	17 in (43.18 cm)
Outside diameter <i>At probe</i>	4.75 in (12.07 cm) 5.36 in (13.61 cm)
Length*	9.55 ft (2.91 m)
Weight*	342 lb (155 kg)
Maximum Tensile Force	150,000 lbf (667.2 kN)
Minimum Compression Force	100,000 lbf (44.8 kN)
Maximum Torque	75,000 lb-ft (101,686 Nm)

*Probe module