

SFTT™ Sequential Formation Test Tool

The SFTT™ sequential formation test tool measures wellbore and formation fluid pressure at any point in the well with a petroquartz pressure transducer. The SFTT tool can also collect representative formation fluid samples for up to two test depths in one trip into the well.

The following measurements are available for monitoring and recording at the surface system:

- Hydrostatic (mud column) and formation pressures
- Continuous recording of time so significant events during the test can be timed for computations
- Pre-test volumes
- Petroquartz pressures
- Petroquartz pressure sample rate
- Petroquartz transducer temperature

Features

- Variable pre-test volumes (5 to 10 cc)
- Drawdown rates (0.5 to 2 cc/sec)
- Drawdown after padset established
- Adaptable to H₂S
- Standard precision quartz gauge
- Determine reservoir pressure
- Identify gas and oil reservoir boundaries
- Monitor reservoir intercommunication
- Indicate areas of pressure depletion
- Estimate formation permeability by pressure/time curve correlation
- Determine chemical concentrations and reservoir fluid properties through laboratory analysis of retrieved formation samples
- Measure flow and shut-in pressures vs. time



The SFTT™ tool features ruggedized construction for measuring precise formation and wellbore-hydrostatic pressure readings. The SFTT tool can also collect reservoir fluid samples in two separate chambers for analysis of fluid properties with standard 2.75-gal chambers and optional 1.0, 5.0, and 8.0 gal chambers.



The advanced Halliburton quartz gauge is standard and can measure pressures with an accuracy of $\pm (1.0 \text{ psi} + 0.01\% \text{ of the reading})$; resolution is 0.01 psi and a repeatability of 1.0 psi

SFTT™ Sequential Formation Test Tool Specifications

Tool	Length ft (m)	Diameter in. (mm)	Maximum Pressure psi (Mpa)	Maximum Temperature °F (°C)	Weight lb (kg)
SFTT™-B	22.1 (6.7)	6.5 (165.1)	20,000 (137.9)	350 (176.7)	675 (306.2)
SFTT-C	18.9 (5.8)	6.5 (165.1)	20,000 (137.9)	350 (176.7)	525 (238.1)

The sequential formation test tool is also available for hostile environments. For more information, reference the HSFT™ hostile sequential formation tester tool on page 55.