TruTest Pressure Integrity Testing Tool

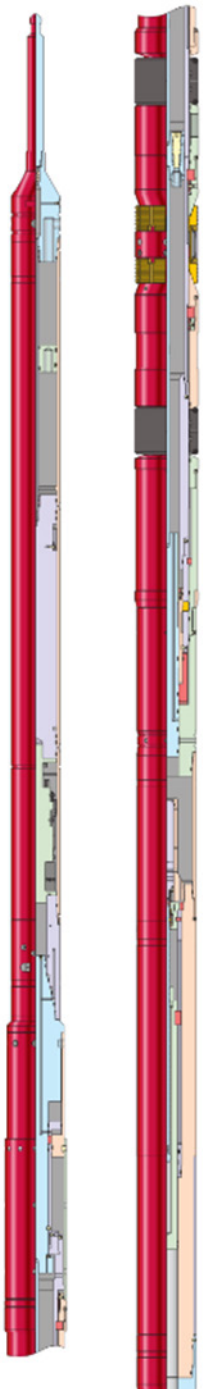
Creates a dual-monitored well barrier to confirm integrity of test data

Applications

- Integrity data of cement plugs to regulatory requirements
- Integrity data of any barrier
- Casing or tubing integrity testing
- Work over applications
- Wellhead repair and replacement

Features and Benefits

- The TruTest tool meets ISO 14310 standards for high-performance reliability in testing the integrity of well barriers.
- This tool is deployed on wireline, to provide a live data feed and to convey commands from surface.
- The dual-element pressure-monitored system boosts confidence in the reliability of test data acquisition.
- Onboard automated setting is provided by either a surface command or a timer; no additional setting equipment is required.
- A 3,000 psi (20.6 MPa) differential pressure rating provides high-integrity sealing.
- Hydrostatic well pressure above the barrier can be increased and decreased to pressure test the corresponding side of the barrier.
- Retrieval is achieved by means of a surface command to an internal sleeve that is shifted down to equalize the pressure and then sheared up to release, which minimizes risk of the plug releasing prior to equalization. A contingency release is provided via mechanical override of the sleeve through the external fishing neck.
- Small maximum running ODs enable passage through typical wellbore restrictions.
- Slip-to-casing contact has been optimized to accommodate damaged tubing.
- Slip system lock rings prevent re-engagement of the slips after the tool is released.
- An Intelligent protection system helps to prevent tool damage.
- The TruTest tool will not affect the hydrostatic pressure above the preinstalled well barrier during deployment and setting.



The TruTest plug creates a dual monitored well barrier to confirm integrity of the test data.

Weatherford®

TruTest Pressure Integrity Testing Tool

Tool Description

The Weatherford TruTest pressure integrity testing tool monitors its own integrity and the integrity of any preinstalled well barrier or plugged zone. This data-acquisition tool is deployed on wireline to a position that is close to the preinstalled barrier, and then is automatically set. Testing is conducted by decreasing or increasing a trapped volume of well medium, then real-time high-resolution pressure and temperature data is transmitted to the surface for analysis and post-processing. When testing is complete, the tool is released. The tool can be preprogrammed to automatically release when testing is complete, or it can be released by a surface command. The TruTest tool does not require additional service tools for deployment or retrieval during normal operations. A mechanical override can be used as a contingency in the event of an unplanned operation.

Specifications

Tool Measurements

Casing or tubing size	7 in. (177.8 mm)
Casing or tubing weight	29 to 32 lb/ft (43.1 to 47.6 kg/m)
Casing or tubing ID range	6.292 to 5.988 in. (159.8 to 152.1 mm)
Maximum OD	5.720 in. (145.3 mm)
To pass restriction	5.750 in. (146 mm)
Tool length	248 in. (6,300 mm)
Temperature rating	104 to 302°F (40 to 150°C)
Pressure rating above and below	3,000 psi (20 MPa)

Data Acquisition

Temperature resolution	±0.18°F (±0.1°C)
Pressure resolution	±0.02 psi (±137.9 Pa)
Volume Resolution	±0.000183 $in.^3$ (±0.003ml)
Piston Total displacement	50.04 $in.^3$ (0.82 liters)