At the heart of Halliburton is well testing.
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Over 85 years ago, Halliburton introduced drillstem testing (DST) to our industry, establishing the initial standard for well testing. These early well tests provided a basic understanding of a reservoir’s characteristics.

Although the discipline of well testing has evolved dramatically since then to provide more extensive and accurate reservoir information, the ultimate goal remains the same: to empower you with the ability to not just optimize a well’s performance, but to optimize your financial investment.

Of course the right data can help determine a reservoir’s size and structure. But, it can also discover productivity indicators like permeability, skin, and initial reservoir pressure. So, not only can the right information aid you in understanding a reservoir’s near-wellbore boundaries, when you know the existence of heterogeneities, discontinuities, and connectivity, you can better answer your most important questions. When you get exactly what you need, you’ll be equipped to make more efficient and effective decisions about completion design, production facility design, and establishment of refining procedures.

At Halliburton, we understand that well testing isn’t just about data. It’s insight. Potential. Control. Whether it’s making money, saving money, or saving time, well testing is about you achieving your business goals.

Partner confidently with Halliburton because as we continue to lead the industry with proven, comprehensive, fit-for-purpose solutions that are designed specifically for you to assess the financial health of your reservoirs, we’ve always been well testing. We’ll always be well testing. At the heart of Halliburton is well testing.
SURFACE WELL TESTING

Halliburton provides surface well testing services and products including planning, specialized equipment, and monitoring and measurement of all factors relating to the production of oil, gas, and water at a well site.

The end result is complete, accurate and reliable data to make critical decisions regarding additional testing, production methods, secondary recovery programs, and developmental drilling.

From the Surface Test Tree to the Separator, from the Surge tanks to the Burner Units - every component of Halliburton’s surface well testing system is engineered to protect personnel, the environment, your well, and the accuracy of your data.

- Packages are tailored to specific test conditions and objectives through use of “Design of Service” process
- Specialized packages meet environmental regulations for highly sensitive areas
- Automated and manual shut-in systems keep control even if unanticipated conditions develop
- Flow measurement devices are precisely calibrated for exceptional accuracy
- Standardized equipment modules fit ISO envelopes, simplifying transport and handling

All system components meet NACE MR-01-75/H₂S service standards as well as all applicable industry API, ASME, ISO/CSC and DNV codes and standards. CE marked packages are available to meet specific area requirements.

Halliburton provides a variety of Surface Well Testing (SWT) equipment options including (but not limited to):

**Surface Well Testing Package**

The Halliburton standard Surface Well Testing Package components are all designed to allow equipment standardization, ease of maintenance and global uniformity in processes and procedures.

An effective well test package may consist of:

- Surface Test Tree with Swivel and Lower Master Valve (3” or 7 3/8” ID)
- Coflon® Flow Hose
- Kill Hose
- Surface Safety Valve
- ESD System
- Chemical Injection Pumps
- Data Headers
- 5 and 8 Valve Choke Manifold(s)
- Heat Exchanger
- 3 Phase Horizontal and 4 Phase Vertical Test Separator
- 250 PSI Surge Tanks
- 200 BBL Atmospheric Tanks
- Diverter Manifolds
- Pipe Packaging
- Transfer Pumps
- Safe Area and Air-Purged Zone-Specific Lab Containers
- Burner Booms and Burner Head Systems
- A-60 Pressurized Lab Cabins
Trailer Package

Dual Trailer Desert Package
Dual Trailer unit designed for desert use comprised of two each 40 ton payload, fifty foot step-down trailers.

Equipped with a fully functional, self sufficient Surface Well Testing package, these SWT trailer packages can be mobilized quickly, rigged up in shorter time than the traditional skid unit packages and are designed to be fit- for-purpose for desert/land operations.

Euro Trailer Package
Dual Package consists of three 40 foot trailers that are designed to meet European CE and ATEX standards and guidelines.

As with the Dual Trailer package, this system will allow a self sufficient Well Testing package to be easily mobilized to and from location, reducing rig-up/rig-down times to improve efficiency.

Express Package System
Mobile, single trailer unit consisting of a 4 valve choke manifold, a 1st stage vertical 4 phase and a 2nd stage horizontal 3 phase, 2000 psi/14 MPa, 32” x 10’ separator. This trailer unit is designed for fast, efficient mobilization to the wellsite and can be utilized in a variety of well test, clean up and flowback applications.

Frac Flowback Test (FFT) Package
A Surface Well Testing package that incorporates a specialized abrasive resistant 7 valve choke manifold and a vertical 4 Phase Separator system.

The FFT manifold, with its dual inline positive choke system is designed for enhanced choke manifold durability to handle the flowback of abrasive proppants.

The 1440 psi/10 MPa vertical 60” x 11’ 4 Phase Separator provides a means to safely and efficiently separate and measure the flow rates of produced oil, gas and water from the reservoir while also allowing a controlled method of handling solid returns.

Surface Data Acquisition
The Halliburton Well Testing Data Acquisition System combines GeoBalance® Sentry™ Data Acquisition and Halliburton’s INSITE Anywhere® service to provide up to date electronic hardware and data gathering software for high performance data gathering during well test operations.

Sentry™ software calculates well test parameters such as flow rates, volumes and produces accurate, real-time logs. Well test reports are gathered and information is stored within the INSITE® database.
Data is displayed on one of the selectable human machine interface (HMI) screens or customizable display screens can also be created within Halliburton’s INSITE® software. Historical and real-time data can be accessed, displayed and evaluated during the test.

Work stations can be placed in various locations during well test operations, such as the company office or service office enabling the client and Halliburton testing personnel to monitor the test. Gathered data can be accessed without the risk of disturbing overall system performance.

Data can be transferred to other locations such as Halliburton Testing Real-Time Operations (RTO) centers or client offices for real-time evaluation and analysis.

**Multi-Phase Flow Meters**

The MPM® topside meter is intended for production monitoring, well testing and allocation metering purposes. It can be supplied as a Multi-Phase meter, a Wetgas meter, or as a combined Wetgas and Multi-Phase meter. The MPM Meter is an unique measurement methodology that ultimately bridges the gaps between Multiphase and Wet Gas Metering. All Meters for well testing services come with full metering technology options and have HP/HT design specifications. All the wetted parts are made of Inconel 625® material and are therefore safe to use on wells with high concentrations of H₂S and CO₂. The design standards for the meters are ISO 13628 – 1, 4, 6, API 17D, API 6A, ASME B31.3, ASME Sec. VIII Div.2, DNV RP A 203, ATEX, NACE MR-0175.

The technology is available in various sizes and can be deployed as a permanently installed or as a temporary complete skid mounted metering system. Both options provide a compact metering solution for easy deployment and installation no matter what the location.

The MPM® measures continuously and in real-time helps ensure the highest accuracy. The measurements achieved help to increase the knowledge of the reservoir and how wells behave. A Multi-Phase Flow meter can give significant contributions to optimizing production, recovery and revenue.

**State of the Art Technology**

The meter is a state of the art technology which was developed by MPM® in partnership with ten major oil and gas operators; it’s qualified through an extensive verification program in certified laboratories and field production operations. There have been more than 120 systems sold worldwide for topside and subsea applications to date.

**Contact Halliburton Today**

From the Surface Test Tree to the Separator, from the Surge tanks to the Burner Units - every component of Halliburton’s surface well testing system is engineered to protect personnel, the environment, your well, and the accuracy of your data.

Contact your representative today to learn exactly how Halliburton can help you with your Surface Well Testing needs.
Partner confidently with Halliburton because as we continue our leadership with proven, comprehensive, fit-for-purpose well test solutions that are designed specifically for you to assess the financial health of your reservoirs, we’ve always been well testing. We’ll always be well testing. At the heart of Halliburton is well testing.
Surface Well Testing

We Are Well Testing™

www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions in the contract between Halliburton and the customer that is applicable to the sale.

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