Halliburton Mobile Maintenance Systems
Efficient, Cost-Saving Solutions for Remote Operations
Mobile Maintenance Capabilities
Where You Need Them Most

Halliburton Mobile maintenance systems can travel to virtually any remote location, eliminating the time and expense needed to build brick-and-mortar facilities. These efficient, fully functional units come with their own power source and require just four-to-six hours to assemble, including time to install all beams, connect cables and power up the facility. Full rig-up of all equipment on the site generally takes less than two days.

All Mobile maintenance systems are built to be transported to location and to survive in hostile remote conditions and contain proven Halliburton technology and equipment with a long track record of successful support. Units are staffed with appropriate Halliburton certified field technicians, mechanics and supervisory personnel as needed.

Decades of On-the-Ground Experience
At Halliburton, we have wide expertise and experience supplying operations in remote areas around the globe. Our resources are supported by strong relationships with our freight forwarders and logistics partners who are already present in most countries. These established relationships are a major strength, enabling us to efficiently and quickly set up fit-for-purpose infrastructure to maintain remote operations.

Our capabilities are further supported by proven technology to manage virtually any exploration or production challenge and a wide range of skilled personnel to support that technology. With years of experience, these experts understand the challenges of conducting operations far from established infrastructure.

Together, this combination of resources, expertise and established relationships provide operators with a whole new level of efficiencies in deepwater.

A Well-Established Process
Before work begins, Halliburton engages in a thorough review and evaluation of the project to help ensure its success. The process begins with site selection as close as possible to rig operations and proceeds through a whole range of essential steps. They include:

- Arrange for local authority permits, power hook-ups and water if required
- Facilitate transportation to the location and position containers to ensure the best workflow
- Erect facilities and power up individual units through a highly defined protocol with full verification at every step of the process

Throughout, we maintain a strong focus on health, safety and environmental (HSE) concerns with periodic meetings and ongoing processes to address potential HSE issues, as well as any potential operational considerations.
Directional Drilling and LWD Mobile Maintenance System Handles a Wide Range of Challenging Processes

Shipped as a series of five units, this versatile maintenance system can be used to break down, service, troubleshoot, maintain, calibrate and build up a wide array of complex tools. Capabilities include the tear-down and build-up of all measurement-while-drilling (MWD) strings and mud motors. This Mobile maintenance system includes:

**Generator Storage/Motor Assembly Unit**
This containerized unit is used to ship the mobile generator. Once on location, it provides full facilities for maintaining drilling mud motors, including stripping and building bearing sections, as well as the general measurement and checking of all parts.

**Storage Unit**
This climate-controlled unit securely stores a full range of spare parts, specialist tooling and includes a broad selection of small subs and collars.
MWD Assembly Unit
This unit enables testing, teardown and rebuilding of both measurement- and logging-while drilling (M/LWD) tool strings. Among its advantages, it provides full capabilities for removing electronic inserts, cleaning and checking inserts and annular connectors, and performing related testing of subs and collars.

Jar Tester with Three-Ton Remotely Operated Crane
This unit allows operators to test, qualify and confirm the functionality of the drilling jar assembly, as well as providing full lifting and moving capabilities. Its auxiliary compressor can be used to supply additional compressed air to other units.

Torque Unit
This unit provides full capabilities for breaking M/LWD, drilling motor and drilling jar connections. A fully equipped torque machine with a dedicated laptop computer enables the make up of all torque logging connections.

Designed to meet a wide variety of wireline maintenance needs, these individual systems drastically reduce the need to move equipment in and out of remote locations. Various combinations are available, depending on the scope and length of remote operations. Most systems come in a standard 20-ft DNV container to enable easy shipping. Some 16-ft containers for smaller packages are also available as required. However, the 20-ft size is preferred since it requires no special nonstandard deck space and enables better deployment logistics. Wireline maintenance systems include:

**Wireline Doghouse**
Used to perform field-level equipment maintenance, store consumables, spare parts, manuals and auxiliary equipment, this unit provides the crew with a place to work, prepare and maintain equipment, and can also be used as a base of operations on the well site.

**Reservoir Description Tool (RDT™) Doghouse with Overhead Winch**
This unit enables normal maintenance or rebuilding of pressure and sampling tools, helping to ensure reliable operation, as well as the safe redress and preparation of equipment. It provides a clean, dry environment for opening equipment to perform hydraulics maintenance.

**Onsite Fluids PVT Laboratory**
This unit is ideal for customers requiring well-site analysis or in-country pressure, volume and temperature (PVT) analysis of RDT samples. Fully equipped, the laboratory is allied with SGS, the world’s leading inspection, verification, testing and certification company, and provides unbiased and reliable results for a full range of oil and gas PVT analysis.

**Electronics Lab**
This unit contains all test equipment, test boxes and manuals to perform level 2 preventive maintenance and calibration support, as well as enabling troubleshooting and repairs to components and boards. The electronics lab also contains a spare logging system for the offshore unit.

**Heat Test Unit**
Used in conjunction with the electrical lab, the heat test unit houses a 12-ft oven to test wireline electronics after maintenance is performed or to reproduce a tools failure. It is also used to calibrate electrical equipment after a significant repair.
Sonde Shop
This unit enables the rebuild and repair of sondes. In an exploration environment, the sonde shop and RDT workshop are generally active at the same time, performing required rebuilding and maintenance of tool mechanical sections.

Store Unit
Used for level 4 mobilization, the store unit supports electronics and sonde maintenance in operations scheduled to run longer than six months. By enabling inventory control for longer term projects, the unit reduces the need for last minute rush orders for ongoing operations and helps to ensure security. Inventory includes traceable spare parts and consumables required to support a multi-well project, secure them in a controlled environment and maintain inventory control.

Generator
A suitable generator is provided for all land-based remote operations where there is no power grid, or where power is not available for extended hours of operation.

Pressure Equipment Test Unit
Used to safely test and certify pressure equipment and all other equipment used in well control, the pressure equipment test container is generally deployed for level 5 locations with more than three sets of pressure control equipment and only when it is not practical to move equipment from the country for well certification or the need for frequent testing makes shipping untenable.

Count on Halliburton for Reliable Mobile Solutions
At Halliburton, we have an in-depth understanding of the challenges involved in working in distant locations far from existing infrastructure. Our Mobile maintenance systems are easily transported, set-up quickly and are built to function in hostile environments. Designed to meet a wide variety of maintenance needs, these systems provide a full range of capabilities, dramatically reducing the need to move equipment in and out of remote areas.

Find out how reliable and efficient Halliburton Mobile maintenance systems can meet your specific remote location maintenance needs. For more information about our drilling equipment and wireline Mobile maintenance facilities, contact your local Halliburton representative.
Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.