Halliburton introduces the first stimulation vessel designed specifically for dedicated use by Saudi Aramco. The **Stim Star Arabian Gulf** will provide acid-on-the-fly (AOF) capability with the ability to reconfigure using Halliburton’s Vessel Modular Solution (VMS) system.

The **Stim Star Arabian Gulf** is designed to provide real-time control of the acid blend using Halliburton’s AOF blending system. This will be the first true AOF blender in Saudi Arabia based on proven Halliburton technology with a long track record of success. Halliburton’s VMS system comes with a control room equipped with a full complement of computerized remote controls and satellite communications. The **Stim Star Arabian Gulf** uses dynamic positioning (DP2) for accurate station holding.

**Focused on Safety and Compliance**

The **Stim Star Arabian Gulf** is designed to meet or exceed requirements of SOLAS, IMO, IEC, and MARPOL regulations. Safety is a pivotal concern. Features such as the high pressure pump over-pressure kickout system, as well as a dedicated fire suppression system help to ensure the operations are safe at all times.

The **Stim Star Arabian Gulf** is also designed with environmental concerns in mind. Technologies such as a quick configure deck grid with an integrated MARPOL spill containment design help prevent ecological harm. Back-up systems are also in place, such as a Coflexip® hose with non-return valve, which does not allow materials in line to flow into the sea should the emergency quick disconnect be engaged.

**Acid-on-the-Fly Blending for Optimized Acid Treatments**

Halliburton’s AOF blending system provides significant improvements in acidizing by several capabilities:

- Enables real-time, on-the-fly adjustments to the acid blend
- Delivers a precisely controlled acid blend downhole
- Enables sample taking for testing and verification anytime during the treatment
- Results in no wasted material, acid is only blended as it is used

Halliburton’s AOF blender not only improves treatment efficiency, but also improves safety and reliability by having these attributes:

- Primary power generation separate from vessel power, with built in redundancy
- Control room contains back-up power supply for primary control systems
- Operations can be controlled remotely from the control room or from the equipment itself

* Mark of Technip Corporation
Quality Assurance with Halliburton Technology

Halliburton has a long record for excellence in the energy industry and the Stim Star Arabian Gulf shows the commitment to quality. Some of the quality control mechanisms integrated on the ship include the following:

- Fluid testing in onsite lab includes acid titration, specific gravity, compatibility testing, sludge testing and wettability testing
- Liquid additive pumps have two means (primary and back up) of monitoring and recording rates and volumes pumped. Pump set points can be adjusted on the fly from the control room to allow for real-time adaptability of the fluid
- Hazardous fluid tanks have real-time monitoring capability

Designed with Flexibility in Mind

The Stim Star Arabian Gulf utilizes Halliburton’s VMS system to provide a level of flexibility and options not available with standard vessels. The VMS system is designed to easily add future expansions and upgrades, increasing the capabilities of the vessel when needed.

The Stim Star Arabian Gulf incorporates innovative thinking with proven technologies to deliver a custom solution ideally suited for working in the Arabian Gulf.