

GOA

Record-breaking VersaFlex® ELH sets new benchmark in the Gulf of America

Delivers operational flexibility and improved well integrity for deepwater wells

CHALLENGE

Provide operator with deepwater ELH solution to:

- Support heavy liner weight
- Trip to TD with long string
- Navigate tight spots with rotation and reciprocation

SOLUTION

- Deploy 16×22-in. VersaFlex® ELH system
- Enable rotation, reciprocation, and weight stacking
- Help eliminate the need for supplemental adapter

RESULT

- Achieved first successful 16×22-in. ELH deployment
- Improved cement placement and zonal isolation
- Preserved full ID for future access
- Completed four runs without observed issues
- Supported record liner weight of 1.4 million lb (1,033,000 lb buoyed)

Overview

A major operator in the Gulf of America faced significant challenges in deploying heavy liners in deepwater wells. The operator sought a solution that could support extreme loads, maintain well integrity, and provide flexibility during installation. Halliburton collaborated with the operator to deliver a record-breaking solution using the VersaFlex® expandable liner hanger (ELH) system.

Challenge

Various challenges faced during these four installations included the support of heavy liner weight, tripping to TD with long string (e.g., with supplemental adapters, if the string does not reach TD, its hanger will not reach the profile necessary to support the liner load), and the capability to set down weight, rotate, and reciprocate the string to trip through tight spots.

Solution

Halliburton deployed the 16×22-in. VersaFlex ELH system, which can be set at any point in the parent casing without a fixed landing profile. This flexibility helped eliminate the use of supplemental adapter hangers and preserved the full internal diameter through the 22-in. casing.



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16×22-in. VersaFlex® ELH system

The system enabled rotation and reciprocation during cementing, which improved cement placement and zonal isolation. Halliburton's proactive planning, detailed engineering, and close collaboration with the operator helped facilitate seamless execution across four installations.

Result

The campaign delivered notable results. All four installations were completed without failure or reruns, which demonstrates the reliability of the VersaFlex® ELH system. The operator gained greater operational flexibility, improved cementing efficiency, and achieved stronger well integrity. The removal of supplemental adapters preserved future access and reduced complexity. Most notably, the system supported the heaviest liner ever deployed with VersaFlex ELH technology and established a new benchmark for load-bearing capability in deepwater environments.



VersaFlex® Big Bore ELH run in GOA



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