

Halliburton Subsea Commended for 'Excellent Execution' Delivering Strategic Well Campaign

ELECTROHYDRAULIC (EH) SYSTEM USED TO HELP DEPLOY TUBING HANGER AND PROVIDE WELL BARRIER ISOLATION

EASTERN MEDITERRANEAN

CHALLENGE

- » Provide a subsea EH system to deploy tubing hanger and provide well barrier isolation for offshore field development campaign using a drill ship for field development
- » Must contain enhanced landing string system to deploy tubing hanger and provide faster well isolation
- » Must be adaptable and easily interface with tubing hanger and other rig-specific interfaces and integration

SOLUTION

- » DASH EH control system and Veto 7 large bore system, Veto 7 surface test tree, and EH reel unit complete with umbilical and topside controls package
- » Modular and easily configurable, this package delivers primary direct control and fully redundant EH control for quick well isolation response time, wireline cutting, chemical injection functionality, and real-time data acquisition

RESULT

- » Strong collaboration between geography and service delivery center (SDC), and in line with strategy, provided rapid response packages and met the customer's timeline
- » Package deployed and work scope successfully completed in approximately three weeks with zero NPT and no leaks recorded
- » Operator commended team for "great service and execution"
- » Additional operator procured package for similar campaign in region

OVERVIEW

Subsea well access is increasingly challenging as more wells are discovered in deeper environments. These deeper offshore environments demand tailor-made technology applications to address industrial challenges, requiring reliable well barriers and maintaining well integrity.



Mitigating deep water challenges during subsea well completion operations begins with selecting the proper technology to provide reliability, efficiency, and the overall safety of personnel, processes, and equipment. Because well integrity must be maintained in such environments, a quicker response time for dual barrier well isolation, emergency disconnection, and efficient reconnection are necessary. Halliburton's DASH® electrohydraulic control system combined with the Veto™ large bore safety system combination of electrohydraulic (EH) and direct hydraulic (DH) subsea safety system creates the necessary engineering solution for such subsea well applications.

CHALLENGE

An operator desired a subsea EH system to help deploy tubing hanger and provide well barrier isolation as part of an offshore field development campaign in the Eastern Mediterranean. A dynamically positioned drillship would be used to execute the field development work scope in water depth up to 1,731m / 5,679-ft.

The operator's focus was using the enhanced landing string system to deploy the tubing hanger as well as provide faster well isolation. An EH large bore package adaptable in nature that could easily interface with the tubing hanger, as well as other rig-specific interfaces and integration, were specified.

SOLUTION

Halliburton provided the DASH control system and Veto 7 large bore system, delivering primary direct control in addition to fully redundant EH control for quicker well isolation

response time, wireline cutting capability, chemical injection functionality, and real-time data acquisition. This large bore system is modular and easily configurable, allowing greater flexibility to meet these specific needs.

Through effective collaboration with the operator, Halliburton's project management and engineering support provided a solution to meet all the deliverables; the package was comprised of the DASH control system and Veto 7 large bore system, Veto 7 surface test tree, and EH reel unit complete with an umbilical and topside controls package.

RESULT

Halliburton's DASH control system and Veto 7 large bore system package was successfully deployed. The work scope was achieved in approximately three weeks, including equipment receipt, installation, deck preparation, deployment, and retrieval.

Zero nonproductive time (NPT) was recorded during the entire operation. The operator expressed satisfaction with the equipment, personnel, and health, safety, and environmental (HSE) performance. Crew members with vast experience were involved during the entire campaign execution and, because of the high reliability and efficiency of this package, no leaks were recorded throughout operations with multiple hydraulic functions and valve integrity tests performed.

Upon completion of the campaign, the operator commended Halliburton's subsea safety team for "great service and execution." Because of the project's success, another operator has procured the same package to help execute a similar campaign.

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