

United Kingdom

Remote barrier technology saves 59 hours of rig time in the North Sea

Dual barrier solution reduces interventions and increases operational efficiency

CHALLENGE

- Set production packer with limited pressure capability
- Provide dual barriers for safe BOP removal
- Reduce wireline interventions and rig time

SOLUTION

- Deploy eRED®-LV™ remotely operated barrier valve as packer setting device
- Install EV0-RED™ bridge plug as shallow-set barrier
- Use pressure command triggers for remote open/close sequences

RESULT

- Saved 59 hours of rig time
- Eliminated multiple wireline runs
- Help reduce HSE exposure during completion activities
- Supported efficient SIMOPS planning



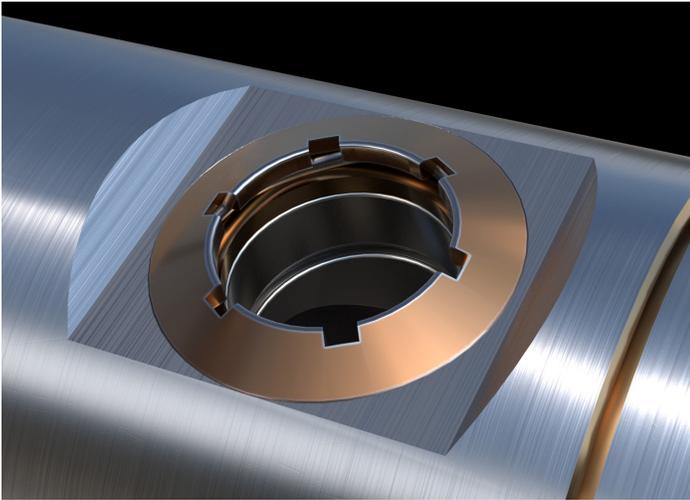
Overview

An operator in the United Kingdom sector of the North Sea needed to set a production packer and establish dual well barriers while minimizing intervention operations. Traditional completion methods required multiple wireline rigups and several shallow and deep runs, which added rig time, cost, and health, safety, and environmental (HSE) exposure. Halliburton recommended a remotely operated solution using the eRED®-LV™ remotely operated isolation barrier valve and the EV0-RED™ bridge plug to help reduce conventional intervention steps and increase operational efficiency.

Challenge

The operator needed to hydraulically set a production packer and deploy dual barriers with minimal intervention activity. Because the completion design allowed only low pressure to be applied against the fluid-loss device, a separate packer setting solution was necessary. A typical completion would involve two wireline rigups, 10 shallow wireline runs, and one deep wireline run, which would significantly increase rig time and HSE exposure.





eRED® valve flow port

Solution

Halliburton deployed the eRED®-LV™ remotely operated isolation barrier valve in the open position to function as both the packer setting device and the deep-set barrier. After the completion was landed and the hanger tested, the valve was remotely closed to allow the production packer to be set. It was then reopened via pressure command for annulus testing and reclosed to establish the deep-set barrier.

The EVO-RED™ bridge plug was installed as the shallow set barrier to allow safe removal of the blowout preventer (BOP) and installation of the christmas tree. Preinstalled in a tubing joint onshore and deployed in the open position, the bridge plug was remotely closed once the packer was set and the eRED LV valve reclosed. After christmas tree installation, the plug was remotely opened and retrieved via slickline. The eRED LV valve and fluid-loss device were then opened via pressure command to begin production operations.

Result

The combination of the eRED-LV valve and EVO-RED bridge plug saved the operator approximately 59 hours of rig time compared to typical intervention methods. The remotely operated solution help reduce one full wireline rigup and rig down, eight shallow runs, and one deep run. The reduction of intervention activity also lowered HSE



Remote barrier technology helped reduce rig time by approximately 59 hours

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