

Offshore Canada, North America

eMotion®-LV barrier valve saves operator 30+ hours direct rig-time savings

eMotion®-LV remotely operated barrier valve allows interventionless completion installation

CHALLENGE

- Install the completion without using intervention methods to set well barriers prior to removing the BOP and installing the subsea tree

SOLUTION

- eMotion®-LV remotely operated isolation barrier valve as a shallow-set barrier to facilitate the removal of the BOP and installation of the subsea tree

RESULT

- 30+ hours of rig-time saved
- Reduced HSE risk with less personnel on location
- eMotion-LV helped eliminate the need for two slickline runs and saved in excess of USD 1MM of rig time



Overview

Offshore Newfoundland and Labrador, a major operator wanted to increase the efficiency of their subsea operation by removing all interventions. Halliburton proposed the eMotion®-LV remotely operated isolation barrier valve as a shallow-set barrier to facilitate the removal of the blowout preventer (BOP) and installation of the subsea tree. The eMotion-LV valve allowed the upper completion to be run with the ball open. The ball was then commanded to close, creating a second well barrier to facilitate the removal of the BOP and installation of the subsea tree. The valve was then remotely opened via pressure signal, and the tubing retrievable safety valve was opened in order to allow access to the reservoir. The use of the eMotion-LV barrier valve resulted in 30+ hours of direct rig-time savings and reduced HSE risk, with cost savings associated with rig time in excess of USD 1MM.

Challenge

A major operator in Canada was looking to increase the efficiency of their subsea completion deployment by removing all intervention operations in order to set well barriers prior to removing the BOP and installing the subsea tree.



Solution

Halliburton proposed the eMotion®-LV remotely operated isolation barrier valve as a shallow-set barrier to facilitate the removal of the blowout preventer (BOP) and installation of the subsea tree. This was a new application for the eMotion-LV valve, since it has primarily been used as a packer-setting device.

The eMotion-LV valve allowed the upper completion to be run open. The ball was then commanded to close, creating a second well barrier to facilitate the removal of the BOP and installation of the subsea tree. The valve was remotely opened via pressure signal, and the tubing-retrievable safety valve (TRSV) was opened to allow access to the reservoir.



Cut

30+ hours

of rig time

Result

This application used the valve as a shallow-set barrier, making it the most significant application for the technology to date. Use of the eMotion-LV barrier valve over conventional intervention methods resulted in 30+ hours of direct rig-time savings and reduced the operational risk of intervening with slickline/wireline, reducing the exposure to HSE risk. This first eMotion-LV valve installation for the operator, and first installation in Canada, created a more efficient completion installation with direct cost savings associated with rig time in excess of USD 1MM.

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