



GARD *U-line*™ Roller enables high-dev gas lift intervention



MALAYSIA 





GARD *U-line*™ Roller enables high-deviation gas lift intervention

COUNTRY: Malaysia



U-line™ Size:
2.750”

Depth:
11,804ft

Deviation:
72°

CHALLENGE

A Malaysian Operator was looking for ways to reduce cost when planning a high-deviation gas lift intervention programme on an offshore Malaysian asset.

Simulation modelling suggested that wireline tractor was the only feasible option to convey the toolstring to the deepest gas lift mandrel located at 11,804 ft and 72 degrees deviation.

Not only did the toolstring need to negotiate a long tangent section of 8,077 ft (holding at 71deg) as well as a number of other gas lift mandrels, in order to reach the target mandrel, it also had to deliver sufficient impact force to the kickover tool arm when in-situ.

SOLUTION

GARD *U-line*™ Roller Technology was proposed and selected to participate in the gas lift remediation programme. Considered as a cost-effective means of deploying toolstrings to Target Depth (TD) with the use of slickline instead of electric wireline tractor.

RESULTS

U-line™ Roller successfully conveyed the kickover tool to the deepest gas lift mandrel, maintaining running speed and momentum along the well tangent section to target. When located within the mandrel, mechanical jar action was clearly visible at surface, with sufficient force transmitted to the kickover tool arm in order to change-out the valve. The operator benefitted from the use of *U-line*™ Rollers, proving that slickline could be used to convey complex toolstring to challenging depths and deliver significant jar force without the deployment of wireline tractor.

VALUE

U-line™ Roller Technology ensured that the gas lift intervention programme was reduced, through the use of slickline rather than wireline tractor / stoker combo.

Risk to asset was reduced as a result of less time in the well and the cost of the well-intervention was repaid within 3 weeks of completing the operation.

Intervention Programme

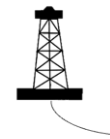
➔ Gas Lift Valve Change-out



ASSET: Offshore Oil Well



METHOD: Slickline



CHALLENGE: High-dev GLV change-out



VALUE: R.O.I. 3 weeks



Operational Highlights

- ➔ U-line conveyed kickover tool string along
- ➔ High-dev long tangent section
- ➔ Enabled mechanical jarring at high-deviation

