



GARD *U-line*[™] Roller replaces tractor for camera conveyance



NIGERIA





GARD *U-line*™ Roller Replaces tractor for camera conveyance

COUNTRY: Nigeria



U-line™ Size:
2.750”

Depth:
10,850ft

Deviation:
79°

CHALLENGE

A Nigerian Operator needed to define the exact nature of an obstruction in a well by conveying a downhole camera in memory mode to the high-deviation target, using *U-line*™ Roller Technology. This follow-up *U-line*™ intervention operation within a highly-deviated gas producing well, was planned based on a previous diagnostic *U-line*™ programme of work, which had established the presence a well bore obstruction located deep in the well. *U-line*™ was chosen again over the cost-prohibitive wireline tractor option.

SOLUTION

As with the first mobilisation, simulation modelling optimised the GARD *U-line*™ Roller toolstring design to ensure delivery of memory camera to Target Depth (TD) at 10,850ft / 75 degrees deviation. Wheel size was selected to enable 1) safe running clearance through all well restrictions, 2) maximum tool lift / debris clearance, 3) sustain low rolling friction and maintain momentum in order to reach TD.

RESULTS

A total of four (4) *U-line*™ deployments using slickline were performed in a safe and efficient manner. All data and images were retrieved successfully, which provided the Operating company with clear visualisation of the downhole obstruction, enabling accurate remediation to be planned.

VALUE

The Operator achieved a 50% time saving from superior operational efficiency and significant cost savings of around 85% when deploying the GARD *U-line*™ Roller System on slickline, rather than tractor on electric wireline. In addition, risk to personnel and asset were reduced significantly!

More detailed information can be provided upon request

Intervention Programme

- Drift
- Memory CCL
- Camera



ASSET: Onshore Gas Well



METHOD: Slickline



VALUE: 85% Cost Savings
Vs wireline tractor



CHALLENGE: High Deviation
and debris



Operational Highlights

- 50% time saving
- Total distance travelled 81,884ft
- No mechanical wear recorded

