GARD *U-line* Roller Deploys Gyro to high-deviation target replacing wireline tractor

NIGERIA

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COUNTRY: Nigeria

U-line Size: **2.750”**

Depth: **6,222ft**

Deviation: **81°**

CHALLENGE

At short notice, a Nigerian Operator wished to reduce operating costs by removing wireline tractor from a planned Gyro Survey intervention in 9.5/8” casing.

Depth of well was 6,222ftMD with maximum deviation of 81 degrees at end of well. A number of environmental and geometric challenges had to be overcome in order to achieve a successful outcome, including the presence of drilling fluid and potential for solids, eccentric Gyro geometry, full-bore bow springs that contributed significant friction, in combination with a slow running speed during well survey logging.

SOLUTION

Although *U-line* Roller size was sub-optimal due to short-notice request to supply, in-house simulation predicted that a *U-line* Roller toolstring could achieve target depth. During the pre-job system integration test it was decided that *U-line* Rollers be positioned at the bottom of the toolstring, which was another unusual feature of this particular operation.

RESULTS

GARD *U-line* Rollers successfully conveyed a drift toolstring to the high-deviation target, closely matching the intervention simulation. The toolstring returned to surface with drilling debris evident. This was followed by deployment of the Gyro toolstring, with a successful well survey delivered.

VALUE

U-line Roller Technology ensured that operating costs were significantly reduced, through the use of gravity-deployed wireline, rather than wireline tractor.

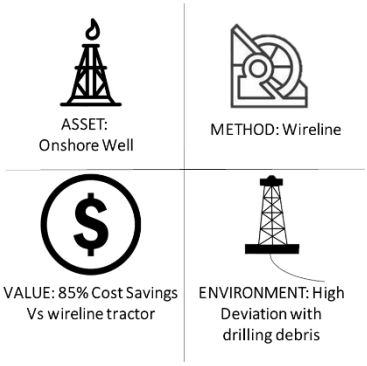
U-line successfully overcame drilling debris in the casing allowing the gyro survey data to be acquired successfully.

Risk to asset was also reduced as a result of less intervention time spent in the well.

More detailed information can be provided upon request

Intervention Programme

- Drift
- Gyro Survey



Operational Highlights

- Achieved TD
- Replaced need for wireline tractor
- Effective Gyro Survey delivered
- Drilling fluid / solids in casing bore overcome
- GARD intervention simulation accurately predicted successful conveyance