CASE STUDY

MICROGUIDE IDENTIFIES SEVERE SPIRALING IN WELL, ENABLING REMEDIAL ACTION AND OPTIMIZED FUTURE COILED TUBING WORKOVER OPERATIONS

TECHNOLOGY

- MicroGuide™ wellbore tortuosity logs

APPLICATION

- Coiled tubing workover operations

LOCATION

- Argentina, Neuquén Basin

INDUSTRY CHALLENGE + OBJECTIVE

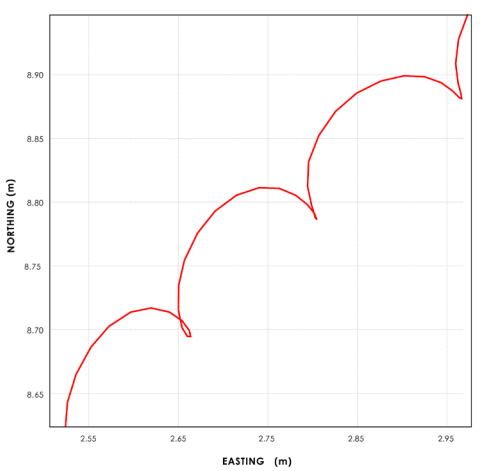
An operator was performing a complex workover operation running 3½-in. coiled tubing within 5-in. production casing. There was major tugging throughout the well and the operator was getting stuck around 1400-m MD with no indication of well damage. After 2 days of no success in determining the cause, it was evident that they needed a better understanding of downhole conditions.

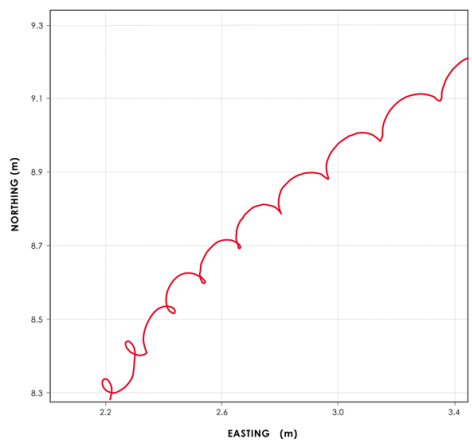
TECHNOLOGY + SERVICE SOLUTION

- With only a conventional drilling survey available, we recommended performing a comprehensive MicroGuide logging analysis to provide true insight into the microdoglegs and tortuosity over the entire depth of the well.
- After running the MicroGuide logs, we discovered that there was extreme spiraling throughout the well. The coiled tubing was then pulled to surface, revealing that it was broken and severely damaged in many areas. The points of excessive drag indicated on the MicroGuide logs were undeniably the cause of the damage to the coiled tubing.

RESULTS + VALUE DELIVERED

- The operator had a more accurate picture of the well's condition and was able to successfully run the coiled tubing to the bottom of well (2606.72-m MD) after running the MicroGuide solution.
- The customer noted that MicroGuide will be incorporated into the planning stages to optimize future workover projects which will yield significant cost savings by eliminating extra workovers and preventing damage to the coiled tubing.





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