

TuffTRAC iX Tractor Conveys Pulsar Spectroscopy Service over 9,500 m to Log Deviated 3½-in Tubing, Malaysia

Production increment gained from advanced spectroscopy log obtained with rigless TuffTRAC iX tractor conveyance in 5 days of nonstop logging

CHALLENGE

Log in the challenging conditions of a complex 3½-in completion profile in a well deviated 79°.

SOLUTION

Deploy TuffTRAC iX* extreme-performance wireline tractor in combination with Pulsar* multifunction spectroscopy service to obtain complete cased hole formation evaluation in a single pass.

RESULTS

Achieved overall production increment based on the high-quality advanced logs secured by continuously tractoring more than 9,500 m over five days without any HSE or service quality incidents.



Logging a slim cased well

An operator offshore Malaysia needed to log a cased well in search of additional producible zones. However, the deep, slim well at a 79° deviation presented many logging and conveyance challenges, with its 3½-in completion incorporating five gas lift mandrels.

Conveying 1⅞-in logging tool with rugged 2⅞-in TuffTRAC iX tractor

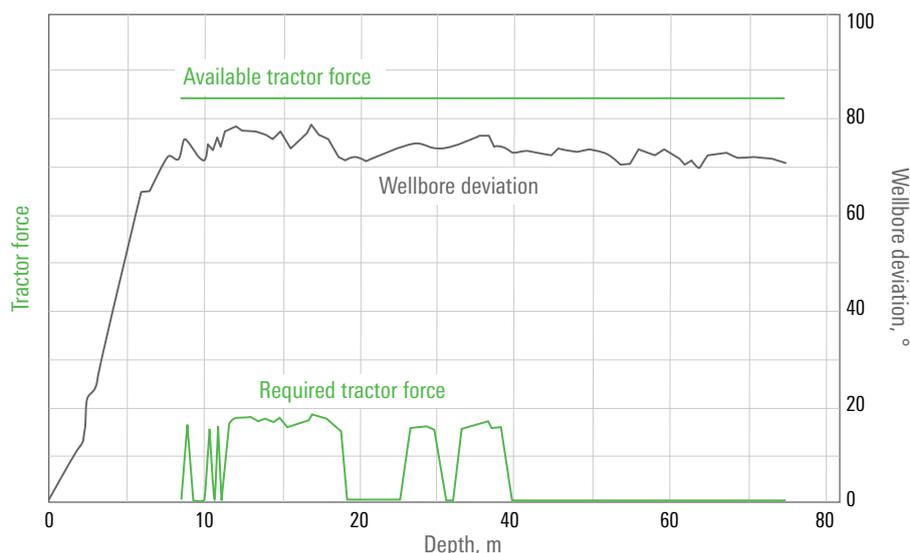
Schlumberger proposed deploying Pulsar multifunction spectroscopy service to obtain complete cased hole formation evaluation from a single run of one tool.

To riglessly convey Pulsar service, the new 2⅞-in TuffTRAC iX tractor was the ideal choice. The tractor’s four drive sections are independently operated to achieve incomparable agility. Real-time monitoring of wheel contact is integrated into the tractor’s active traction control. This unprecedented maneuverability enabled the slim TuffTRAC iX tractor to effortlessly negotiate each gas lift mandrel in the deviated well by sequentially closing the drives as they passed that restriction. Having to close only one drive section at a time maximized available power when navigating through the restriction.

Gaining incremental production through logging insight

The TuffTRAC iX tractor performed flawlessly, tractoring 9,519 m continuously over the 5 days of the nonstop logging operation. No HSE or service quality incidents occurred during the deployment.

From the comprehensive logs returned by Pulsar service, the operator was able to identify and capture incremental production.



The powerful four-drive TuffTRAC iX tractor easily tractoried in the slim, highly deviated well. This performance, far from its maximum capacity, meant that a large reserve of tractor force was available in the event of sticking. The logging operation was efficiently completed without any HSE or service quality incidents.

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