Operator Saves 21 Hours on Two Extended-Reach Horizontals in the Bakken Field

SPECTRUM® ENABLES OPERATOR TO MILL AND THEN COMPLETE A FRAC EFFICIENCY PROFILE FOR COMPLETION OPTIMIZATION

BAKKEN FIELD, UNITED STATES

OVERVIEW

Two extended-reach horizontal wells were successfully milled and monitored to save 21 hours of overall operational time, 20,000 feet (6,096 meters) of coil, and approximately 4,400 bbl of completion brine and associated additives. After removing the frac plugs, each well was evaluated for production efficiency, in just one downhole trip per well, by combining milling tools with distributed acoustic sensing (DAS) and distributed temperature sensing (DTS) technologies.

Due to a tight completion budget and logistical constraints, the operator sought to improve upon its current fracking method. Therefore, a perforation cluster efficiency analysis was performed using fiber-optic data acquisition to gain insight for application to the next wells in the Bakken field development plan.

HALLIBURTON COMBINES SPECTRUM DIAGNOSTIC SERVICES WITH MILLING TOOLS

The combined approach enabled safe removal of plugs via milling tools and, once at full depth, SPECTRUM® Diagnostic Services were used to perform fiber-optic DAS and DTS profiles to monitor the entire wellbore in real time while the DTS/DAS is performed with the coil held stationary pulling out of hole.

This project delivered on both objectives – milling out frac plugs and providing more reservoir understanding – while also reducing operational time and costs related to completions.

To find out more, please visit: halliburton.com/spectrum

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