

Halliburton Auto Pumpdown Service

CONSISTENT, EFFICIENT PLUG-AND-PERF OPERATIONS EVERY WELL, EVERY CREW, EVERY TIME

OVERVIEW

Intelligent completions need intelligent systems, and Halliburton's Auto Pumpdown service represents the next generation in perforating technology designed to improve the consistency and efficiency of pump down operations. During a typical completion, operational inconsistencies can arise from variable downhole conditions, surface equipment, and even personnel competency. By reducing the impact of human variance, automation enables improved job efficiency, reliability, and increased pumping time. This reduces spread costs by means of increased efficiency and reduced fluid use in addition to reducing the environmental impact.

Halliburton Auto Pumpdown service provides closed loop control of system parameters, automating both line speed and pump rate in real time, along with forward modeling to deliver the most efficient plug and perf run, each and every time. Predictable operations during wireline runs and continuous improvement through post-well analysis drive a more consistent completion. Using downhole sensors, Halliburton Auto Pumpdown service immediately responds to variable downhole conditions, faster than a human, helping prevent preset plugs and pumped-off tool strings.

There is no one-size-fits-all procedure that optimizes wireline pump down speed and fluid use in every wellbore. Halliburton Auto Pumpdown service responds to each wellbore trajectory and unique well characteristic to perform the most efficient operation possible with minimal fluid. Using the wellbore survey, tally, and a real-time digital twin, the service continuously calculates a forward-looking model of the wellbore, anticipating speed and rate changes as the tool string is conveyed. Combined with the eWinch® integrated plug-and-perf winch system, Halliburton Auto Pumpdown service sets the standard in terms of fluid, emissions, and fuel reduction for plug-and-perf operations.

FEATURES

- » Provides closed-loop control of both wireline winch and pumpdown units
- » Uses downhole sensors to obtain real-time data at the tool string
- » Integrated fail safes and bumpless transfer to and from auto mode
- » Digital twin provides real-time forward conveyance model

BENEFITS

- » Quicker winch and pump response to unforeseen downhole conditions
- » Consistent, efficient operations, run-over-run
- » Reduced pumpdown fluid use
- » Reduced unplanned well interventions, such as fishing operations
- » Decreased wireline perforating run times

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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