Prodigi™ AB Intelligent Fracturing Service

AUTOMATED BREAKDOWN CONTROLS

OVERVIEW
In unconventional fracturing design, there are many parameters used to optimize stimulation treatment outcomes. For example, to achieve ideal fracture spacing and efficient stimulation of long laterals, the number and density of perforation clusters per stage can be adjusted. The impact of execution process parameters on the success of a stimulation treatment is often underestimated. In particular, the breakdown process can greatly impact stage treatment results. Prodigi™ AB service utilizes intelligent fracturing control to optimize this process.

AUTOMATION DRIVES CONSISTENCY
Flow rate during the perforation cluster breakdown process often varies from stage-to-stage and well-to-well. Common industry practice is to achieve designed rate as fast as the maximum pressure limitations allow. Often, this approach is not ideal for the formation limiting connectivity of fractures, cluster accessibility, and in some cases, events that result in screen-outs.

Prodigi AB service provides an engineered approach to breakdown operations. Utilizing real-time measurements and proprietary rate control algorithms, pump rates are adjusted accordingly during the breakdown process. This engineered approach drives consistent stage-to-stage performance. Adaptive rate control can support a more efficient breakdown at the perforation clusters leading to improved connectivity of fractures.

Implementing the Prodigi AB process has resulted in lower surface treating pressures and an overall reduced risk of screen-outs. Improved cluster efficiency and dynamic fluid distribution control have also been observed, resulting in better overall stimulation treatment performance. With Prodigi AB service, your breakdown process is automatically optimized on every stage of every well.

FEATURES
» Dynamic treatment control software
» Engineered breakdown process
» Algorithm-driven execution using real-time measurement

BENEFITS
» Real-Time Optimization
» Design Assurance
» Screen-Out Mitigation
Figure 1 > Prodigi™ AB service enhances the entire hydraulic fracturing workflow.

Figure 2 > Prodigi™ AB service consistently delivers an intelligent execution resulting in higher treatment rates and lower treating pressures.

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

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

H012925 08/18 © 2018 Halliburton. All Rights Reserved.