

Bakken formation

RapidStage® sleeve system and AccessFrac® fracturing services help improve fracture efficiency in the Bakken

Multi-cycle stimulation design helps increase reservoir contact and accelerate production

CHALLENGE

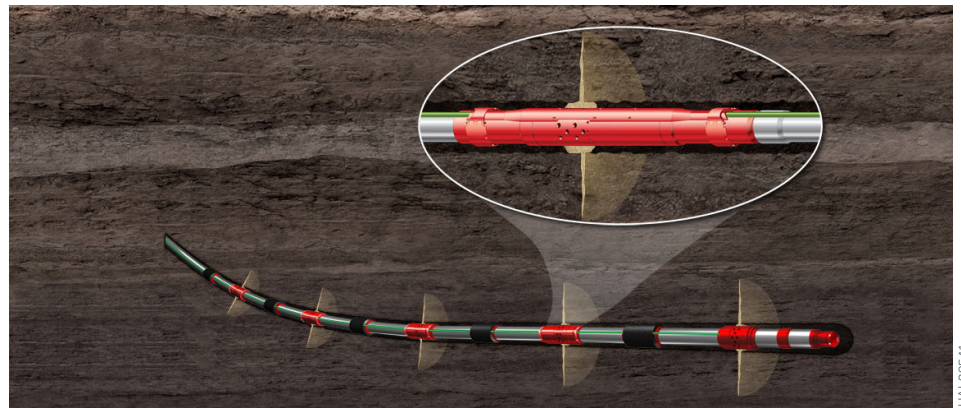
- Increase mechanical compartmentalization
- Minimize completion time
- Access more productive reserves

SOLUTION

- Deploy RapidStage® sleeve system with RapidBall™ DM dissolvable metallic ball technology
- Install Swellpacker® isolation systems for openhole isolation
- Apply multicycle stimulation designs using AccessFrac® fracturing services

RESULT

- Accelerated production startup by approximately three days in one application
- Increased the number of effective fractures without added equipment
- Helped improve fracture quality and reservoir connectivity
- Demonstrated improved production performance in multiple applications



Multistage frac sleeves with RapidStage® cable bypass

Overview

Operators developing horizontal wells in the Bakken and Three Forks formations continue to push completion design to help maximize recovery and improve project economics. While multistage hydraulic fracturing has unlocked significant reserves, conventional approaches might not fully stimulate the lateral, which can leave portions of the reservoir underused. Ineffective stimulation can reduce well productivity and impact overall asset performance.

To address these challenges, operators are increasingly focused on improving compartmentalization within the wellbore while maintaining operational efficiency. Achieving more effective fracture coverage without added complexity or completion time remains an important objective in unconventional developments.

Solution

Halliburton deployed the RapidStage® sleeve system in combination with AccessFrac® fracturing services to help address the operator's need for improved fracture efficiency and well performance.

The RapidStage sleeve system supports openhole completions with up to 55 individual ball-drop stages while maintaining operational simplicity. Swellpacker® isolation systems help provide openhole zonal isolation and support effective stage separation.

RapidBall™ DM dissolvable metallic ball technology helps reduce the need for post-stimulation intervention, which contributes to improved operational efficiency and reduced risk.

To help increase reservoir contact, AccessFrac fracturing services apply multicycle stimulation designs using biodegradable diverter technology. Instead of a single injection cycle per stage, multiple pump and proppant cycles can be executed within each zone. This approach allows a 50-stage completion to deliver up to 100 discrete fracture treatments without requiring additional sleeves or mechanical complexity.

The result is increased compartmentalization throughout the lateral, which helps improve stimulation coverage throughout the wellbore.

Results

The integrated solution demonstrated measurable improvements in both operational efficiency and production performance. Wells were brought online more quickly, and fracture effectiveness increased without requiring additional equipment or intervention.

The use of multicycle stimulation designs helped operators access previously unstimulated portions of the wellbore, which improved reservoir connectivity and supported fracture conductivity.

In multiple applications in the Williston Basin, the solution consistently demonstrated improved production outcomes and completion efficiency. Operators achieved faster production startup, increased fracture density, and improved long-term well performance, which helped reduce development costs and support higher asset value.

A record-setting 31 Swellpacker® cable systems were successfully installed, and the reliability and efficiency of this installation helped to further demonstrate the value that Halliburton could provide for monitoring complex wells.



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