

Setter Series Composite Frac Plug

Savings of \$19,000 over the course of the well

Background

A major operator in the Montney field in Canada required composite plugs that can maximize the run-in-hole speed during pump down operations. The operator was running with line speeds of approximately 394 ft/min (120 m/min) and wished to increase that to 656 ft/min (200 m/min).

Solution

NOV proposed the Setter™ composite frac plug due to its 10,000-psi (69-MPa) rated pressure capacity and the ability to meet the pump down requirements of the operator's application. This provided a safe running guidance and recommended pump down rates for the application which allowed the operation to proceed with 100% success.

Results

The Setter plugs were run-in-hole at a line speed of 656 ft/min (200 m/min) and pump rate of 13.8 bbl/min (2.2 m³/min). This higher line speed produced an overall cost savings to the operator of \$19,000 over the course of the well.

In addition to the positive pump down performance, each Setter plug was subject to a pressure integrity test prior to perforating the zone to ensure each stage was isolated. The Setter plugs were then tagged on depth with the milling BHA and the average milling time was 8 minutes a plug.

NOV's Setter composite frac plug provides superior performance and allows operators to save money through pump down efficiencies, improved milling times, and 100% pressure isolation between zones.

For more information on our complete portfolio of frac plugs, contact your local sales representative or visit nov.com.

Case study facts

Location: Montney Basin, Alberta, Canada

Casing: 4.500-in. (114.3 mm), 22.47-kg/m (15.1#)

