TECH REPORT

BRITISH COLUMBIA, CANADA

HORN RIVER

Lithology	Shale
Reservoir	Otter Park
Temperature	266 degF [130 degC]
Pressure	4,714 psi [32.5 MPa]
Max. drilling depth	16,440 ft [5,011 m]
Completion size	5.5 in [139.7 mm]
CT string size	2.375 in [60.3 mm]

Background

An operator in Horn River needed to mill out Copperhead* drillable bridge and flow-through frac plugs to bring eight wells onto production after a horizontal plug-and-perf completion. A combination of techniques were used to mill plugs quickly and efficiently, including producing the well prior to milling; mill by differential pressure rather than weight on bit; limit the use of vibration tools to lower plugs only; monitor return fluid viscosity to determine proper gel loading and ensure solids carrying efficiency. There was no damage to the CT string and no time lost.

Technologies

- Copperhead drillable bridge and flow-through frac plug
- D2 TT Turbomill* thru-tubing turbomill

COIL TUBING SERVICES
A Schlumberger Company

102 Plugs Successfully Milled Using CT in 31 Days During 8-Well Milling Operation

Combination of techniques helped run 417,000 ft [127,000 m] of 2.375-in CT on schedule with zero string damage and no time lost

The Copperhead plugs were milled out of eight wells with an average milling time of 40.7 min per plug and with zero damage to the CT.

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