



Enhanced Production and Operational Efficiency with ThinFrac™ MP in Western Canada

Technology: ThinFrac™ MP | **Basin:** WCSB | **Application:** Shale

OVERVIEW & CHALLENGE

An operator pumping an unconventional reservoir in the Viking formation in Western Canada saw higher surface treating pressures than expected. BJ Services engineers recommended using ThinFrac MP as an effective alternative to conventional friction reducers in Western Canadian fracturing applications.

SOLUTION

ThinFrac MP allows rapid hydration and develops instantaneous viscosity. It has also proved to reduce pipe friction pressure by as much as 85% compared to freshwater, lowering hydraulic horsepower requirements and improving operational efficiency. 50 m³ (13,209 gal) of this technology was pumped at 1.5 L/m³ (1.5 gpt), which reduced friction and surface treating pressure by 15 MPa (2,176 psi) at a 17 m³/min (14 bpm) pump rate. Treating pressure also dropped to 70 MPa (10,153 psi), or a reduction of 4,250 kW (5,700 HHP). When the technology reached the formation, the surface treating pressure increased back to 85 MPa (12,328 psi). This resulted in the operator keeping the pumping ratio at 1.5 L/m³ (1.5 gpt) of ThinFrac MP for the rest of the treatment.

RESULTS

By replacing the conventional friction reducers with ThinFrac MP, the operator saw a decrease in total completion time by several days and an estimated cost savings of \$600,000. In addition, the operator continued using the recommended amount of ThinFrac MP and pumping ratio for all other stimulations in this well.

