



# ThinFrac™ PW Reduces Freshwater Use in Canadian Well

**Technology:** ThinFrac™ PW | **Basin:** Williston

## OVERVIEW & CHALLENGE

In Canada, dry weather and the competing agricultural and rural population were limiting the volume of fresh and surface water available for multistage, horizontal stimulation operations. Also, typical fracturing treatments in the Williston Basin area used low pump rates, making proppant transport and fluid viscosity difficult in temperatures around 158°F (70°C). The operator needed to find a solution that would not heavily rely on fresh water and deploy a fracturing fluid that tolerates wide variations in produced water quality and downhole conditions.

## SOLUTION

Based on the water composition and temperatures, ThinFrac PW was the recommended solution. This fluid delivers predictable, effective performance when using the wellsite's produced water or flowback water. ThinFrac PW performs in waters with TDS levels up to 300,000+ mg/L (300,000+ ppm) and at temperatures as high as 300°F (150°C).

## RESULTS

ThinFrac PW generated more than 400 cP initial viscosity, remained stable for 100 minutes and gave a clean break. This solution allowed produced water to be recycled with high TDS and minimized fresh water use. In addition, the operator estimated 10 to 15% savings on the total stimulation cost due to reducing freshwater hauling, heating and disposal of flowback fluids.

