



Minimized NPT in Slickwater Fracturing Operations with ThinFrac™ Maximum Permeability (MP)

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

OVERVIEW & CHALLENGE

An operator in the Marcellus shale was conducting horizontal, multi-stage fracturing completions. They were experiencing non-productive time, shutdowns and screenouts due to reservoir properties that were difficult to breakdown along with higher surface treating pressures.

SOLUTION

The slickwater fracturing operation would require the addition of a linear gel to achieve the extra viscosity needed to effectively place the proppant. ThinFrac MP was recommended. This polyacrylamide polymer reduces pipe friction up to 85% in slickwater operations and acts as a linear fluid viscosifier, easily reaching the extra viscosity needed for breakdown and effectively placing the proppant across the problem stages. A breaker was also run with ThinFrac MP to minimize formation damage and enhance regained permeability to greater than 95%.

RESULTS

By transforming a conventional friction reducer to a linear fluid viscosifier, the operator was able to minimize delays or shutdowns. The solution prevented screenouts by adding viscosity instantly and it also reduced costs associated with additional chemicals, a hydration unit and additional equipment operators.

