



ThinFrac™ MP Reduces Formation Damage and Improves Production in Eagle Ford Shale

Technology: ThinFrac™ MP | **Basin:** Eagle Ford | **Application:** Shale

OVERVIEW & CHALLENGE

An operator in the Eagle Ford shale play was seeking a cost-effective solution that could deliver higher regained permeability and better clean up to enhance overall production. 27 wells were selected for the study that ranged in depths from 8,400 to 14,500 ft (2560 to 4419 m) and lateral lengths averaging 4,000 ft (1219 m). Each of the wells were completed similarly with 5-1/2 in (14 cm) casing and were fractured in 14 to 17 stages using the plug-and-perf method.

SOLUTION

The operator selected ThinFrac MP friction reducer, a high-viscosity yielding and cost-effective polyacrylamide polymer. It provides efficient hydration and develops nearly instantaneous viscosity. It reduces pipe friction pressure by as much as 85% compared to conventional solutions. Seven multistage wells were treated with ThinFrac MP. The fluid was injected into the blender with additives and proppant at a loading of 4 gpt. 20 offset wells were treated with high-proppant concentrations using a hybrid (slickwater, linear gel and crosslinked) fluid system.

RESULTS

The wells treated using ThinFrac MP friction reducer demonstrated production improvements from 30% to 70% per well over a 9-month period. In addition, it was equally effective in preventing abrasive wear and proppant settling in the high-pressure pumps, reducing costly shutdowns and extending the pump life.

