

MC SS-5053 Surfactant Reduces Pressure in Frac Jobs Operator Saves Money Over and Above Pump Company Product

BACKGROUND

The friction reducer (FR) used by the service company only had value when pumped at a rate of 1 gallon/1000 bbls. The engineer requested more FR rate from them, but no matter how fast it was pumped, the pressures did not decrease. The FR rate they used was pumped at 4 gallon/1000 bbl.

ISSUES

High pumping pressures observed during the initial frac were exceeding the maximum, creating unsafe conditions.

ANALYSIS

The operating engineer asked Multi-Chem to assist in proper FR selection. During the second frac, the concentration rates of the Multi-Chem surfactant were increased from 0.25 gallon/1000 bbl to 0.5 gallon/1000 bbl.

RESOLUTION

During the initial breakdown of the well, the Multi-Chem surfactant was pumped at 0.25 gal/1000 bbl. When the pressure started to build as pumping rates were adjusted the pressure at 80 BPM was recorded at 7800 psi. When the surfactant rates were increased to 0.5 gallons/1000 bbls, and the treated fluids hit the perms, the pressure suddenly decreased by 800 psi.

DELIVERED VALUE

FR from pumping company: \$143/1000 bbls

Surfactant MC SS-5053 from Multi-Chem: \$6.50/1000 bbls

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