

Enviro-Syn[®] HCR-7000[®] N-Hance Increases Injection Rate by 125% Southern Alberta

An operator in Southern Alberta was facing challenges on a well with high water injection pressures and low injection rates. Despite using a premium HCl blend from a major pressure pumping company on multiple occasions, the operator saw no improvement in injectivity.

SOLUTION

To tackle the problem, the operator opted to use Enviro-Syn[®] HCR-7000[®] N-Hance. Enviro-Syn HCR-7000 N-Hance was selected because of its ability to provide extended soak times, due to its ultra-low, long-term corrosion protection. Moreover, this eco-friendly solution includes a specially encapsulated surfactant package, enabling deeper penetration into areas of damage situated far from the wellbore. Unlike traditional HCl treatments, it mitigates the concern of reprecipitation. Additionally, it has the capability to eliminate hydrocarbons from the scale particles and allows for an immediate reaction.

RESULTS

After pumping 30m³ of Enviro-Syn[®] HCR-7000[®] N-Hance into the well, the operator saw a significant improvement in performance. Injection rates increased by over 125%, while injection pressure decreased by roughly 20%. This strong Modified Acid™ has similar solubilizing abilities as 15% HCl in concentrate and was left to soak for 8 hours before being put back on injection.

By leveraging Fluid’s innovative chemical solutions, the operator was able to overcome their well performance challenges and ultimately achieve better results.

Figure 1: Treatment plot.

