

HISTORY

An operator in South-Western Alberta has a field of aging production wells with very low bottom hole pressures, and marginal production rates. As they were looking to stimulate some of these wells, they needed to manage the finances of the project with the potential payout as traditional treatments proved uneconomical.

PROPOSAL

Samples of production oil from the area were tested for compatibility with an Enviro-Syn HCR blend with excellent results. The formation is a combination of limestone / dolomite and existing water production no doubt contributes to scale development at the formation face. As multiple wells are being considered a base volume of Enviro-Syn[®] HCR 2000 is determined, and treating down the annulus is suggested due to the pump being landed near PBTD.

OPERATIONS

Concentrated Enviro-Syn[®] HCR 2000 was pre-blended with water to 50% at a localized point and delivered to the locations in bulk. Using a pressure pumping unit the HCR treatment blend was then pumped down the annulus of each well and allowed to soak overnight. Production commenced the following day.

RESULTS

An increase in production was seen in every treated well, and most have sustained good hydrocarbon increases to date (see attached examples). Further analysis is being performed to distinguish the greatest return on stimulation dollars, and which area they occurred.

VALUE

The operator was able to utilize localized pressure pumping equipment and make-up water, which significantly reduced product delivery costs and scheduling. Not having to pull any downhole equipment out of the hole was the largest value driven advantage seen from using the Enviro-Syn[®] HCR 2000, and allowed the majority of the project costs to go towards the product actually stimulating the formation. Following this project additional wells have been treated in a similar fashion, positively reinforcing the operators HSE commitment, and delivered value.



