PureChem™ Services

TRUE SUCCESSES

ASPHALTENE INHIBITOR PELLETS SAVE OVER $500,000 IN OPERATING COSTS IN CO_2 FLOOD

Challenge

The customer had six CO_2 flood wells in Southeast Saskatchewan that were consistently experiencing rod hang-ups and blocked casings. Due to very high gas production, liquid applications down the annulus had proven unsuccessful in the past. Run times on these wells ranged from two to six months between rod hang-ups. Treatments to bring the wells back on production had proven costly in both chemicals and lost production time, and were only providing short term solutions.

Area
Southeast Saskatchewan

Formation
Marlie

PureChem Product
AI-5700

Solution

PureChem Services performed asphaltene sedimentation and hydrocarbon analysis, solids analysis determined the deposits were comprised of asphaltene and paraffin. Liquid asphaltene inhibitors would be the typical recommendation for this application, but due to the presence of high gas production and the lack of a capillary string, PureChem's solid chemistry of AI-5700 pellets was deemed to be the best treatment for this situation.

Benefit

The wells have been producing for close to three years at the time of this writing with no rod hang-ups due to asphaltene fouling. This has resulted in a cost savings in excess of half a million dollars. In addition, the elimination of repeated workovers has made the operations much safer.

AI-5700 Pellets