

True Successes

Paraffin Dispersant Saves Operator up to 56% in Treating Costs

Challenge

The client was experiencing flow line pressure issues and wax build up in the clean oil sales flow line. Additional concerns were; water quality and the build up of interface in the vessels, injection water quality and total suspended solids. It was discovered that solids and hydrocarbons were suspended in the water and at the vessel interface.

Solution

Hot flask (wax dispersant test) and emulsion tendency tests were performed on several products. PureChem's PC-4004 paraffin dispersant produced the best results with keeping wax in solution, it was the top performer in emulsion tendency testing and out-performed other dispersants in produced water compatibility testing.

Benefit

After implementing the PC-4004 program, water quality improved significantly within 24 hours. The new program produced a significant savings in chemical costs as well as \$30,000 savings in oil recovery which was being injected down the water injection system. This will also cause significantly less damage to the formation. Pressure monitoring at field headers and flow lines shows reduced pressures by 30-40%; oil-in-water carryover has decreased significantly from 800-1,000 ppm to less than 50 ppm. Injection water/total suspended solids (three-month average vs after program implementation) shows an average decrease of 56%.

Area

Southeast Saskatchewan

Formation

Midale

PureChem Products

PC-4004



Untreated and Treated
Water Samples