

Pump Run Life Extended from 3 Days to Over 2 Years

Multi-Chem Scale Inhibitor Inhibits BaSO₄ Scale

BACKGROUND

This issue was a real headache. The well produced 15 BOPD and 50 BWPD. During one pump replacement, the producer noticed scale when the was found. They ran in a new pump anyway and the well began producing more and more water, however, the pump only lasted a few days - same as before. Multi-Chem was called in to investigate the scaling issue.

ISSUES

A producer in a Southern Oklahoma waterflood had a well with frequent pump sticking problems. New pumps would last only a few days after installation.

ANALYSIS

The local Multi-Chem technical team tested the deposition and determined that it was barium sulfate (BaSO₄) scale. The operator was also advised to test the casing because, historically, BaSO₄ scale had never been an issue. A hole was found in the casing, which was allowing water from another zone into the well, causing the BaSO₄ problem.

RESOLUTION

The operator ran a casing patch in an attempt to fix the hole. After that, a new pump was installed, but in a few days, the pump was stuck again with scale. Multi-Chem applied scale inhibitor continuously down the casing to control the scale.

This solution finally solved the problem. The pump has been in the well for over two years without any scaling problems. It was determined that the casing patch did not work and was still letting water into the well.

DELIVERED VALUE

Chemical Program: \$8 / day

Pump Run Life: Extended from 3 days to more than 2 years

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