

MC MX 519-3 Reduces Paraffin Deposition in Gas Lift System Wire-line Costs Reduced and Production Improved

BACKGROUND

A producing well located on inland waters near environmentally sensitive oysters fields had decreased oil production. The production company was having to intervene with a wire-line unit to cut paraffin on the well to increase the production each time the well failed due to paraffin deposition.

ISSUES

Due to the paraffinic nature of the crude oil being produced in this well, the producer was having to cut paraffin by wire-line once a month to maintain production. The location of the well made it difficult for the wire-line barge to access the wellhead. This created a very large expense for the company.

ANALYSIS

Multi-Chem was asked to develop a solution which would reduce cutting time, frequency of wire-line jobs, and system downtime. The local Multi-Chem team collected samples and determined through analysis and testing that MC MX 519-3 would cost-effectively control the paraffin deposition from occurring. Injection of MC MX 519-3 was initiated at 5 gallons / day via gas lift.

RESOLUTION

The treatment program was monitored by Multi-Chem technical specialists. Preliminary results indicated that the dosage was insufficient to provide complete inhibition, so the rate was increase to 1000 ppm (6.5 gallons / day). This adjustment proved to be the optimum dosage.

DELIVERED VALUE

Since the MC MX 519-3 was implemented, oil production has increased by 30 – 40 barrels per day. Another wire-line paraffin clean up was made. It was determined that there was significantly less paraffin deposition than on previous jobs and that the paraffin deposition was softer and much easier to remove than before.

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