

MC P-3480 Eliminates Paraffin Plugging Also Removes Emulsion Problems tied to Paraffin

BACKGROUND

A competitor has been treating down the casing with a paraffin solvent at the rate of 34 quarts per day while still having to pump 100 bbls of hot water with an additional 20 gallons of paraffin solvent added at least once per week to keep the well operating. The well also required 12 quarts of a demulsifier being injected into the flowline to maintain sellable oil at the battery.

ISSUES

The problem well is Roto-Flex pump produced with one mile of flowline to the battery. There have been paraffin plugging and emulsion problems with this well.

ANALYSIS

Multi-Chem bottle tested demulsifiers for oil and water separation as well as sent oil samples to the Houston GTC for additional testing.

The results came back recommending MC P-3480 as the most effective paraffin controller. The production at the wellhead was also visibly emulsified a dull brown in color.

RESOLUTION

Injected MC P-3480 down the backside of the well at the rate of 34 quarts per day. The same as the competitor. After 10 days the emulsion at the wellhead had changed to a clear water/oil separation. No hot water jobs were required to keep the well running.

After six months, the MC P-3480 has been reduced to 20 qts per day and the demulsifier has been discontinued. The well has only been hot oiled once in 6 months.

An increase in oil production from 18 bbls to approximately 26 bbls per day has also been realized.

DELIVERED VALUE

Previous chemical costs approx	\$115.00 per day
Hot oil costs	\$38.00 per day
Chemical added to hot water	\$27.00 per day

Multi-Chem current costs 5 gal P-3480 \$81.00 per day

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