

MC SS-5005 Eliminates FeS Solids Treatment Program Reduces TCO by 50%

BACKGROUND

This producer was spending approximately \$5,500 / month for H2S treatments. They were interested in reducing the costs of this program. The lease produced 50 BOPD, 1,000 BWPD and 200 MCFD gas. H2S levels ranged from 550 PPM to 2500 PPM. The producer also was having corrosion and FeS issues in downhole equipment.

ISSUES

The main issue is H2S in the gas production. Other issues include oil carryover in waterflood make-up water, FeS, and Hot-Oil expenses.

ANALYSIS

Multi-Chem's local technical team collected samples from various locations throughout the field, including well production, water dumps on the treaters, and the discharge pump on the water tank. H2S levels were taken throughout the field as well to determine the extent of the problem. After analyzing and testing, a treatment program using MC SS-5005 was recommended.

RESOLUTION

MC SS-5005 was injected on each production well, along with a corrosion and scale product. A crystal modifier program was initiated on two wells which were being hot-oiled on a weekly basis. The emulsion breaker was injected at one well, which was sufficient to provide 50 ppm rate for all production on the lease.

DELIVERED VALUE

The Multi-Chem program was successful in reducing TCO on this lease by 50%. H2S levels were reduced to 185 ppm at the meters, so an H2S scavenger was applied to reduce the levels to <4 ppm. All paraffin problems and hot-oil costs were eliminated with the Multi-Chem crystal modifier. Within three months, all oil carryover into the injection system was eliminated. Emulsion Breaker costs were reduced by 75%. The elimination of solids in the produced fluids has drastically reduced chemical costs and other costs.

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