

Mixture of M-8280, M-2101, SS-5651 Eliminates Gunk Operator Saves \$390,000/Yr and Operation Efficiency Improves

BACKGROUND

The operator was having issues with the "witches hat" of the inlet scrubber stopping up with gunk. It was necessary to shut the compressor down once or twice a week to clean the hat and put it back on line. This was a costly issue due to the amount of gas lost and the operational expenses of shutting it down and manually cleaning the scrubber.

ISSUES

The Chemical vendor was using paraffin solvent to treat the scrubber. It was being injected 50 yards before the inlet scrubber. The "witches hat" was plugging with gunk, which caused it to overheat and shut down, thus no gas was able to get through the hat.

ANALYSIS

The operator was dissatisfied with the lack of control and asked Multi-Chem to develop a better solution. After reviewing the system, Multi-Chem moved the injection point closer to the problem and installed an atomizer to mix the treatment in with the produced fluids. Lab analysis revealed that the gunk was predominately salt and iron sulfide, not paraffin, so the paraffin solvent was doing nothing to control the problem.

RESOLUTION

A chemical mix of MC M-8280, MC M-2101, and MC SS-5651 in a water base was injected with an atomizer at the 90 degree just ahead of witches hat. This allowed the mixture to hit the problem area. The water and SS-5651 inhibited the salt while the M-2101 kept the minerals in solution to get through the hat. The M-8280 addressed the iron sulfide issue.

DELIVERED VALUE

Shutting down the compressor cost the operator 3 hours of down time, during which time approximately 1 MMCF gas was lost. The cost of cleaning was approx. \$500 each time,

\$500.00/week
\$7/mcf X 1mil=\$7000/week

Savings to the operator: \$7500/week or \$390,000/year

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