

MC S-2340 Scale Pellets Control BaSO₄ and CaCO₃ Failures Eliminated on Rod Pump Well

BACKGROUND

This low producing gas well was put back in service by installing a pumping unit. This well flows gas up the backside at 102 MCFD and produces 45 BWPD and 5 BOPD. This unit runs directly from gas that the well produces.

ISSUES

This operator's pumping unit failed. When the pump was pulled, mineral scale which had formed on the pump was determined to be the root cause of the failure. The operator replaced the pump and the unit failed again several months later.

ANALYSIS

Multi-Chem's local technical team analyzed the scale deposits. They contained barium sulfate and calcium carbonate scale. After testing, Multi-Chem determined that a batch treatment would likely kill the well and any treatments pumped down the backside would not be effective. The recommendation was to use MC S-2340 scale pellets. These would fall into the rat hole and provide a slow release of the scale inhibitor.

RESOLUTION

The first treatment was done with 28 gallons of MC S-2340 pumped down the backside with a Multi-Chem treater truck and shut-in for two hours. Since that treatment, the unit has had no further scaling issues to date. Water is now collected monthly for scale inhibitor residual analysis. The treatments last from five to six months.

DELIVERED VALUE

Total investment for each MC S-2340 treatment program was \$1450. The operating company has not had any more scaling related failures or down time since the program has been implemented. Savings of approx. \$800/day in production loss have been achieved. Additional savings include cost of rod pump - \$4000; workover rental - \$250 / day rate, manpower and miscellaneous operating expenses.

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