

MC Foamer and Fresh Water Control Salt Problems Swab Truck and Workover Rig Costs Significantly Reduced

BACKGROUND

This producer has several wells that periodically lose production due to salt accumulation in tubing and in the casing. This has been an ongoing problem.

ISSUES

Due to the high brine of the well, salt was depositing downhole, reducing the well's production. The producer needed a cost-effective solution to remove the salt deposition.

ANALYSIS

Multi-Chem's field team investigated the problem. They inspected solids flowing back from work-overs and swab rigs and determined the problem to be salt mixed with oil-wet solids. On site testing was performed to determine what technique could resolve the problem.

Based on the testing, it was found that freshwater, mixed with a foamer surfactant could treat the problem.

RESOLUTION

A 60bbl batch of freshwater mixed with 15 gallons of foamer was applied to dissolve salt and unload formation fluid, as well as bringing back partially dissolved solids and treatment fluids. The well was shut in for 24 hrs. The well came back strong and produced for several days without loading issues.

After the initial batch, a continuous injection of fresh water and foamer was initiated on the wells to keep them from loading. It has now become standard operating procedure to install either a capstring with pump or only a pump on the backside for chemical injection as soon as a well starts to show signs of salting.

DELIVERED VALUE

The producer is saving money everytime a chemical tank is set on a well that produces salt and loads with fluid. The treatment method is very effective and costs of swab trucks and workover rigs has been significantly reduced.

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