

MC FA-4007 Unloads Gas Well and Eliminates Need for Swabbing Production Increases 820 mcf/d and 10 BOPD

BACKGROUND

The well would make approximately 680 mcf/d, 30 BWPD and 3 BOPD and pressures of 120 psi on the tubing string and casing pressure of 950 psi prior to entering the slug flow pattern of liquid loading.

ISSUES

A gas well located in Western Oklahoma was in a slug flow gas pattern due to liquid loading. A swabbing unit was utilized to unload the well and return to production.

ANALYSIS

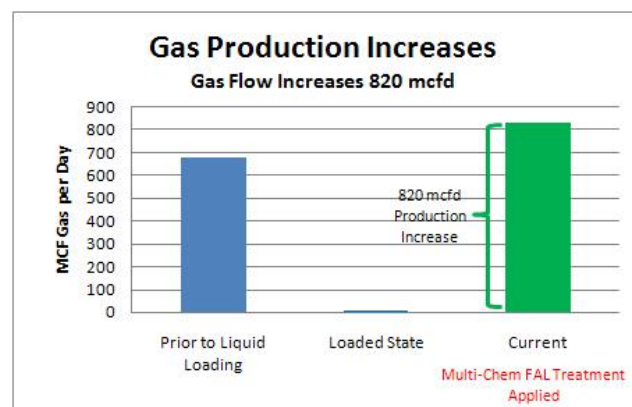
The foam assisted lift "FAL" process was initiated on this well. It was determined the well was in a slug flow pattern and the liquid foaming agent could be applied down the annulus of the well. Field testing was conducted on live produced fluids from the swabbing unit and it was determined that MC FA-4007 was the product of choice.

RESOLUTION

A batch treatment of MC FA-4007 was applied down the annulus of the well. The batch treatment was a success yielding an incremental increase in production of 250 mcf/d, 130 BWPD, and 10 BOPD. A continuous injection of MC FA-4007 was recommended based upon the results of the batch treatment.

DELIVERED VALUE

The well was transitioned from a slug flow pattern to a mist flow pattern and the need for swabbing was eliminated. Production has been maintained at 830 mcf/d.



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