

## Application of Combination Foaming Agent MC FA-4009 Production Increases 450 mcf/d and Scaling Tendencies Mitigated

### BACKGROUND

The well flowed approximately 50 mcf/d during flowing periods. Liquid loading was controlled by periodic shut in and pressure build up.

### ISSUES

Well flows intermittently due to liquid loading issues as well as exhibiting scaling tendencies.

### ANALYSIS

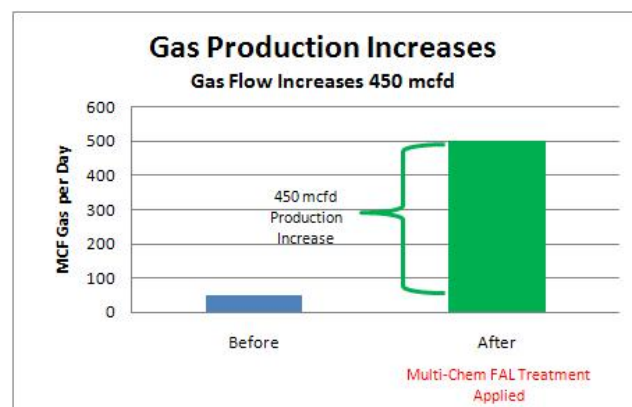
Field testing was conducted by Multi-Chem's FAL (Foam Assisted Lift) team on live produced fluids from the well to select the combination foaming agent that would exhibit the best foam quality and half life as well as inhibit the scaling tendencies. MC FA-4009 was selected as the product of choice.

### RESOLUTION

To optimize the treatment program, a capillary string was installed and continuous injection of MC FA-4009 was initiated.

### DELIVERED VALUE

Production increased from 50 mcf/d and the well leveled out with an incremental gas flow increase of approximately 450 mcf/d; the well no longer has to be shut in for pressure build up for liquid unloading. No downhole scale deposition has been reported since inception of program.



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