

## Elimination of Gas Lift Compressor by Utilizing MC FA-4211

\$96,000/yr in Rental Expenses Eliminated; Gas Production Increased 80 mcf/d

### BACKGROUND

Utilizing a gas lift injection rate of 400 mcf/d, the well produced approximately 620 mcf/d for a net actual production volume of 220 mcf/d.

### ISSUES

A gas lift gas well producing in North Central Texas was exhibiting liquid loading even with the addition of injected gas to aid in lifting produced fluids. Multi-Chem was requested to determine if the addition of a liquid foaming agent would further enhance production in conjunction with gas lift.

### ANALYSIS

Multi-Chem's FAL (Foam Assisted Lift) team conducted field testing on live produced fluids from the well to select the liquid foaming agent which exhibited the optimum foam height and half-life. MC FA-4211 was selected as the product of choice.

### RESOLUTION

Continuous injection of Multi-Chem MC FA-4211 was initiated down the annulus at a rate of 2400 ppm. After initial well response the continuous injection rate was optimized and the need for gas lift assistance eliminated.

### DELIVERED VALUE

Production increased almost immediately. The gas production on the well leveled out with an incremental gas flow of approximately 300 mcf/d; the well no longer utilized gas lift compressor assistance.

Cost savings of \$8,000 per month with the elimination of gas lift compressor

Multi-Chem warrants to purchaser, but no third parties or others, the specifications for the product shall fall within a generally recognized range for typical physical properties established by Multi-Chem when the product departs Multi-Chem's point of origin and that any services shall only be performed in accordance with applicable written work documents. Purchaser agrees that Multi-Chem will give purchaser the benefit of Multi-Chem's professional judgment in making interpretations of data, but does not guarantee the accuracy or correctness of such interpretations. Multi-Chem's recommendations contained herein are advisory only and without representations as to the results. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY MULTI-CHEM SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THE WARRANTY CONTAINED HEREIN. EXCEPT AS OTHERWISE SET FORTH HEREIN, THE PRODUCTS AND SERVICES ARE "AS IS" AND MULTI-CHEM MAKES NO OTHER WARRANTY OR GUARANTEE OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PURCHASER AGREES THAT MULTI-CHEM SHALL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES OR LOSSES FROM ANY CAUSE WHATSOEVER INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR GROSS NEGLIGENCE.

#### Global Technology Center

World Houston International Business Center  
15865 International Plaza Drive, Suite 200  
Houston, Texas 77032 USA

(800) 805 9178  
(325) 223 6200  
(325) 942 7500 FAX

[www.multichem.com](http://www.multichem.com)

