

## MC FA-4013 Unloads Well and Eliminates Scale and Corrosion

Production increases 24.5mcf / day for 1,330% ROI.

### BACKGROUND

A gas well located south of Vernal Utah was making 200 mcf/d. Water would unload in slugs every 2 to 3 days. At times, the well would be shut in to build up pressure to unload the well. The 13,000 ft well also had a positive scaling index for barium sulfate scale.

### ISSUES

The producer felt that the well was under producing. The slug flow of water was a problem and the amount of intervention to keep the well flowing was high.

### ANALYSIS

Multi-Chem was asked to develop a solution to increase production on this well. Foamer tests were performed and MC FA-4013 was selected as the best, fit-for-use product to unload the well and prevent BaSO<sub>4</sub> scale.

### RESOLUTION

A solar powered pump and stock tank were set at the well. MC FA-4013 was injected continuously down the annulus at 3 GPD for 3 days. The well unloaded 120 bbls during this period. Gas production increased 24.5 mcf/d and the casing pressure dropped 250 PSI. Additionally, H<sub>2</sub>S levels were reduced and monitoring showed FA-4013 provided reduced corrosion levels.

### DELIVERED VALUE

Production increase: 24.5 mcf/d ( \$172/day)  
Scale & Corrosion problems eliminated  
Chemical rate optimized at 1 GPD  
ROI: 1,330%  
Reduced LOE on this well.

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