



## MC FA-4100 Foaming Agent

### FAL® (Foam Assisted Lift) Service Proves Safer, More Cost-Effective Than Plunger Lifts.

Location: East Coast

#### Overview

After this customer initially tested Multi-Chem's FAL® (Foam Assisted Lift) service on two Marcellus Shale wells in their Central Highlands Field, they extended the FAL service trial to four additional wells. Rather than installing costly plunger lifts, the customer chose FAL service in an effort to maintain operational expense, reduce man hours invested in dangerous activity, and reclaim lost production due to the liquid loading.

Multi-Chem utilized source water to determine that MC FA-4100 would be the best foaming agent for these wells, and initial treatment at 2,200ppm would provide the right dosage to optimize production and ensure adequate return on investment. A covered tank/containment system was also recommended to help reduce the costs of having containments pumped out and emptied regularly.

Establishing an open line of communication enabled Multi-Chem to get accurate measures of daily water production and, based on water production from individual wells, refine FAL service treatment to an actual, measurable dosage of approximately 0.5-1.0 gallons per day.

One month after the successful installation, each of the four wells trialed had responded to the FAL service with an increase of 65 MCFD per well, per day. A total of 261 MCFD increase in production on the four FAL serviced



Multi-Chem's FAL® (Foam Assisted Lift) solution, MC FA-4100 foaming agent, increased per well production by 22 percent in one month in four Marcellus Shale wells, a rate at which the FAL service investment can be recouped in as little as 45 days.

CHALLENGE	SOLUTION	RESULT
Reclaim lost production due to liquid loading while maintaining operational expense and reducing man hours invested in dangerous activity.	Multi-Chem FAL® (Foam Assisted Lift), using MC FA-4100 foaming agent at dosage determined by individual well performance, with covered tank/containment system.	FAL service installation on four wells resulted in 22% increase in per well production in one month, and significantly reduced personnel exposure to dangerous activities.

wells constitutes a 22% increase in per well production. Based on this production and revenue data, the FAL service installation recouped all costs in just 45 days, realizing additional savings from not having to haul away containments full of water.

In addition, switching to the FAL service program significantly reduced personnel exposure to dangerous activities by eliminating any need to shut in the well to drop soap sticks or unload the wells to a tank. Personnel exposure to pressurized systems was eliminated, and overall man hours for dangerous activities was reduced.