

## Production Separator Foam Carryover

### Downhole corrosion

#### BACKGROUND

Because of the low water volume of most wells in the Barnett Shale and their tendency to load up on these small volumes, foam carry over of separators occurs when wells unload. Utilizing dilute foamers did not cure the problem and in some cases made the problem worse due to the additional water in the product. The lease operators were shutting the chemical off to stop the carry over issue. This left them with no corrosion inhibitor going downhole for lengthy periods of time.

#### ISSUES

Production Separator Foam Carryover

#### ANALYSIS

A product was needed that would not only be sufficient to keep the well unloaded, break quickly in the surface equipment, and would also meet the corrosion inhibitor requirements in the Barnett Shale.

#### RESOLUTION

Multi-Chem's gas enhancement group was able to build a product (FA-4990) that satisfied all of the requirements listed. This product has a low activity foamer package and a high activity corrosion/scale inhibitor package. Separator carry over issues have been effectively eliminated field wide, while insuring corrosion protection even at low injection volumes.

#### DELIVERED VALUE

Multi-Chem was proactive in dealing with this issue and the product was rolled out in Feb of 2008. Other chemical companies were forced to play catch up and did not have solutions in their areas of the field until Q4 of 2008. The value delivered is hard to measure in dollars or MCF, but the proactive solution that Multi-Chem was able to deliver has been recognized by the customer and has made FA-4990 the product of choice in the Barnett Shale.

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