

REDUCED COSTS

Timberland Gathering & Processing Co.

TOTAL SAVINGS - \$3,150 per month

Operator Savings \$1,350 month

Fuel Savings \$1,800 month



Time, fuel gas consumption reduced; from challenge to solution

The Challenge

Experitec, Inc. took Timberland Gathering & Processing Company's challenge and turned it into a solution. A solution that brought about a monthly savings of \$3,150.

The problem was a pneumatic temperature controller located at their Tyrone Oklahoma Gas Plant. The temperature would swing high, going over the set-point and low, below the set-point. But Experitec's Services Team provided a solution that maintained a constant set-point at start up and during drier process.

Drying time at the Tyrone Plant was 4 hours every 12 hours. This was a maintenance concern that had to be dealt with twice a day. An operator opened or closed the valve manually

until set-point was stabilized. Still the Foxboro controller would send a signal approximately 300 ft. from the control room to the device causing slow response to the control valve. The temperature would drift 70 to 80 degrees F both ways from the 800 degrees F set-point. This would cause excess fuel gas usage and would take 1 to 1.5 hours of an operator's time to stabilize the system.

The Solution

Experitec provided a 1" 2400 Baumann control valve with DVC6000 positioner. The positioner receives an input from a Moore digital temperature controller that is mounted at the control valve, thus eliminating running additional wiring to the control room. The temperature controller has a display and keyboard to set set-points, alarms, and

history. Operators are able to view current temperature readings at location and have the ability to tie into a control system at their control room when they upgrade their plant.

The Results

By installing the new control valve with DVC positioner and new temperature controller, drier time has been reduced from 5.5 hours to 4 hours. Fuel gas consumption has been reduced from 64 MCF to 4 MCF. A significant savings in operator time of 90 man-hours a month and a fuel gas usage reduction of 300 to 600 MCF per month.

Timberland is pleased not only with the ease of operation, but also with the man-hour and fuel gas savings.

MAKING PLANTS SMARTER.