

Real Time Test Data

Application Sheet # 47

REAL TIME BENEFIT

Real time changes to chemical resulted in a significant drop in chemical usage and manpower.

SITUATION

- Water content is an important parameter in determining the chemical injection rate for a New Mexico Operator.
- The pumpers would test the water regularly, send the data to the foreman who sent to the chemical company's employee and then wait 2 to 4 weeks for the chemical company to be able to run an analyses and travel to location to make alterations to the pump rate.
- Changing rates quickly is particularly important when wells are first brought on production due to the fast decline in production rates.
- Not all SCADA connected pumps are equal, and lack of accuracy can defeat the goal. However, in this case a Sirius Fusion high accuracy pump was in place.
- Over-injection of chemical was typically in the range of 12 to 15% due to the inability to match the production data with the required pump rate.

SOLUTION

- A process was implemented allowing the Pumper to directly enter the results of the production and water test directly to SCADA.
- An algorithm was written and configured to take the data entered by the Pumper, calculate the chemical injection rate, and send a signal to the Fusion controller to automatically adjust pump speed.

RESULTS

- Changes to the chemical injection rate were immediate and reflected the current production
- Over injection dropped from 12% to 2%, a significant drop in chemical costs.
- The need for the chemical company to visit location was eliminated.



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