

Treating Produced Water with Hydrogen Peroxide

Application Sheet #56

REAL TIME BENEFIT

Optimal Operations and
Remarkable Savings
\$250,000 plus

SITUATION

- In the Permian Basin, a chemical company uses Hydrogen Peroxide to treat produced water.
- A traditional chemical injection system was used to pump the hydrogen peroxide. The pump was plagued with breakdowns and parts replacements.
- Over a 90-day span, the system consistently operated at a rate ~ 30% below the intended injection rate.
- Poor performance of the injection system necessitated the frac crew to be on site continuously, monitoring the pump.

SOLUTION

- A Sirius Atlas Plastic pump, coupled with IIOT Insight Connect and a flow meter, was used to replace the legacy pump, and provide remote access.

RESULTS

- This solution enabled the customer to remotely obtain real-time flow measurements, thus facilitating exception-based management, which freed up the frac crew to perform other work.
- Following a 90-day deployment, the customer reported zero pump failures and achieved an injection accuracy rate of 95%.
- Cost savings amounted to \$15,000 over the 90-days due to elimination of part replacements and manpower related to the injection system.
- More importantly was eliminating the necessity for the frac crew to remain on-site. This operational improvement was estimated to have potentially saved between \$250,000 and

\$500,000 in eliminated expenses for the oil company, by effective utilization of the frac crew on other locations.

- Due to the outstanding success of this application, the chemical company has chosen to standardize on the Sirius Atlas pump for treating produced water with Hydrogen Peroxide



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