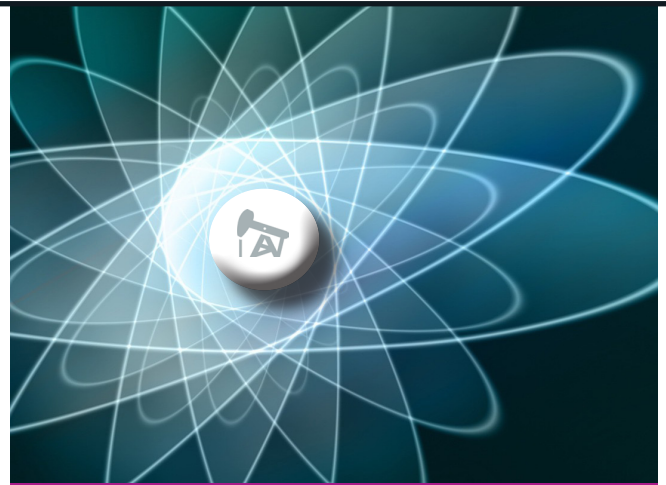


Autonomous Rod Pump and Primary SCADA

RESULTS

- Autonomous Rod Pump Management delivers sustainability
- Consolidated SCADA data, advanced visualizations, and analytics
- Always up to date, scalable SaaS SCADA platform enhancements enable focus on operations and growth, and not the platform
- Enables future "Operate by Exception" initiatives to scale & grow



APPLICATION

DeltaV™ SaaS SCADA
SaaS SCADA mobile app
SaaS SCADA Autonomous Rod Pump
SaaS SCADA Advanced Analytics
SaaS SCADA Self-Serve Commissioning
Emerson FB3000

CUSTOMER

Oklahoma oil & natural gas exploration and production company

CHALLENGE

An independent exploration and production company partnered with Emerson and Vinson Process Controls on an automation and instrumentation projects to propel their operations forward.

Using existing infrastructure, they desired to enhance operations with value-generating digital tech to prioritize operator routes, gain insight on operations, and optimize artificial lift performance.

To better utilize operational data they wanted one, primary SCADA system for data acquisition, monitoring and control of operations, totaling 378 wells, that would also have the ability to easily scale for growth and present new tech to support efforts into the future.

They required a trusted partner to continuously make fiscal commitments into innovative updates, and developments for sustainable operations and support their growth plans.

"Starting our digital journey to autonomous operations with Emerson has freed our people to be solely focused on our core business targets, high growth and successful M&A activity with a bright future of being more sustainable and profitable through the use of current and future technology advances."

Oil & natural gas production
Oklahoma - COO

Understanding the customer's operations and their digital roadmap desires made it painless for this customer with our experts to migrate wells to DeltaV SaaS SCADA and is easily scalable for rapidly growing operations while enabling them to add more wells through drilling and high M&A activity efficiently.

Communication architecture is included for data to be polled over the existing APN via a secure VPN connection. This implementation supports full read/write functionality to end field devices.

DeltaV SaaS SCADA Autonomous Rod Pump with advanced analytics was implemented for pump card data to be collected and interpreted via our proprietary machine learning algorithms. The results of these algorithms are viewable through integrated advanced dashboards, and showcase any anomalous pump activity and categorize the anomalies into defined, actionable categories. The algorithm then prescribes (historical) operator actions to be taken to offset the issues it interprets. The analytics will then provide the Customer's production engineering people with better insight to pump performance, and sustainable production.

Production data from the field can be viewed in multiple visual styles, including customizable live data screens that can be templated for use across many sites and contain useful images and graphs to drill down into a specific asset, site, well-pad, or operation.

While creating custom dashboards for trending data, our SaaS SCADA can also be utilized for custom calculations and reports, and send reports at pre-set time intervals to a list of specified users, or groups. End users can create custom reports for summary views that help aggregate and visualize data into actionable insights for better, faster decisions. Reports can also connect with other data sources, such as projected production values for comparison to actual production values for a complete view.

DeltaV SaaS SCADA Self-Serve commissioning tools enable customers to manage new location creation and existing location modifications at will to provide a greater level of control over implementation for growth. Relevant personnel received complete training to commission new sites online, create sensor templates, and manage the Self-Serve tools.

Additionally, the DeltaV SaaS SCADA mobile app was downloaded by most staff to grant them access to the same data, to easily monitor and control operations from anywhere, at anytime with any mobile device.

The customer's confidence in Emerson, and the future developments in progress has led them to stay committed to SaaS SCADA, which have enabled them to quickly scale operations to meet operational objectives and continue their digital journey to become fully autonomous.



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 DeltaV SaaS SCADA