

## EXECUTIVE SUMMARY

SnubWell® data acquisition system (DAS) was created to provide real time data metrics during Snubbing operations by monitoring sensor data alongside operator input, painting a complete picture of how a job is completed plug by plug. By integrating third-party sensor data and KPI's directly to our cloud portal, SnubWell® improves communication and decision making. Our dedicated team will work directly with all vendors to ensure Snubbing operation KPI's are accessible from anywhere.

## CHALLENGE

During a recent drill out, Deep Well Services was approached by an operator to help consolidate their KPI's into one platform. Previously, the operator was facing vendor saturation with multiple pieces of equipment utilizing disjointed data acquisition solutions and wanted to move away from navigating through multiple logins and HMI's.

## SOLUTION

The DAS is the hub of the job and provides the point of contact between all other on-site equipment. Detailed feedback is provided from a combination of sensors and user input. For additional equipment and KPI's, there is a wealth of available I/O to tailor the system to the operator's needs.

A chemical trailer on site had a traditional PLC with registers for chemical rates, concentrations, and totals. Because standard PLC communication protocols are supported natively on SnubWell®, those values were blended into the DAS data with no software update required. This solution enables integration with a wide range of third-party systems and standalone sensors without the need for additional development or interaction from the vendor.

On the same well, a system of web-connected flowback tanks utilized its own proprietary cloud-based solution that was not readily available for the OSR. In this case, performing a cloud-based integration reduced bandwidth usage and had no physical footprint. Deep Well Services' Engineers created a serverless function to connect the previously unavailable third-party's data into SnubWell®.

## RESULT

All data sources were seamlessly blended into a dashboard which combined SnubWell®'s sensor data and KPI's alongside third-party integrations with a single login for the duration of the operation. This unified environment supports communication between the operator and service providers, giving the visibility necessary to make informed decisions.

