

# Single Pressure Sensor – Multi Well Measurement

Application Sheet #49

## CUSTOMER VALUE

### SITUATION

- A Producer operating in the Marcellus play injects chemical downhole through capillary strings. A single Sirius injection system with a Stack™ (multipoint) was used to deploy chemical to seven independent wells.
- Injection pressure was determined to be a critical operating parameter for understanding downhole valve performance and monitoring chemical injection.
- A hazardous zone pressure transmitter was required for each injection point. The cost for these transmitters installed was over \$8,000.

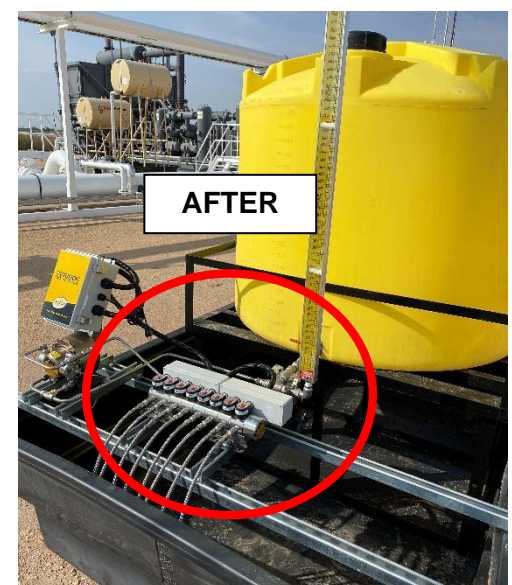
### SOLUTION

- Sirius's engineering team developed firmware to read the injection pressure at all locations using a single pressure transmitter.
- The top picture illustrates the "Before" configuration of the Stack™ and pressure transmitters. The lower picture shows the new design, eliminating all but one pressure transmitter.

### RESULTS

- Savings on each pad going forward was over \$8,000.
- Long term maintenance was reduced by eliminating components.
- Alarms can be configured to detect if the pressure falls out of normal operating range, alerting the operator to potential problems.
- An added benefit was the "Stack™ Check" software that ensures the multi-point valves are functioning as designed.

- Capital reduction.
- Reduced maintenance.
- Alarms to detect any pressures out of normal operating parameters.



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