



ADVANCED ADOPTION



OBJECTIVE

Deploy total chemical pump automation to 120 chemical applications in **one week** for a major producer in the **Permian Basin**.

A 15-Unit pilot demonstrated immediate value that validated the economics to advance adoption to the entire operating area utilizing capillary string for chemical injection:

- Real-time dosing based on current flowrates
- Real-time tank volume tracking
- All wireless installs, no trenching necessary

Cover 66 wells across 18 batteries.

WHAT WE ACHIEVED

Over a 6-day period, our team deployed 120-units along with all wireless communication infrastructure into the companies SCADA system.

QUICK CYCLE ROI EXAMPLE

Within the first-week of deployment, a well was shut-in due to a process upset. The DCiii Mirador device stopped chemical injection within an hour of the well being shut-in. The ROI on this device was realized within 8 days.

BUSINESS DRIVERS

The operator needed to gain control of their chemical program, provide transparency to stakeholders, while realizing both tangible and intangible savings.



Total Project Cost of ~\$400,000

- Included material, DCiii labor, and contingency
- One-time cost, no reoccurring fees or expenses



Total Savings of ~\$850,000 / year

Tangible Savings calculated as ~\$0.35MM/yr

- 14-month payoff period based off of conservative estimate of 5% reduction in chemical volume just by eliminating treatment of shut-in wells.

Intangible Savings calculated as ~\$0.50MM/yr

- Conservatively figured a 5% improvement in chemical dosing accuracy resulting in less corrosion-related failures and increase in MTBF.
- Improved vendor assurance and inventory control with capability to monitor tank volumes, leading to better oversight of chemical vendor and improved service quality.



Aligns with Corporate Directive 'Field of the Future Effort'

- The Producer has a strong push to move into a modern field of future program, chemical automation is a key step



Gives Capability to Expand to Other Processes

- Methanol Injection to minimize hydrate formation
- Surfactant-Assisted Gas-Lift to Optimize production

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