



# Cost Down. Control Up.

Application Sheet #67

## SITUATION

- A major gas producer in Northern Alberta struggled with hydrate formation during cold weather. These “freeze offs” resulted in production downtime and significant manpower to keep the wells running.
- The pneumatic pumps operating on timers would regularly under-inject and changes could not be made without physical input from an Operator. Generally, by the time the freeze up was discovered the well was already down and required a pressure truck to revive.
- As part of a preventative maintenance effort, pressure trucks were dispatched weekly to batch methanol into the wellbore to clean up the hydrate blocks.

## SOLUTION

- The Sirius Fusion2™ controller and Comet2 pump were installed to provide proportional rate control maintaining steady methanol injection, even when injecting against hydrates: unlike the pneumatic pumps, which often under injected and caused production issues.
- The Fusion2™ controller was connected to SCADA which allowed full rate control.
- A key feature of the upgrade was the batch cycle injection capability, allowing for controlled, high-volume methanol dosing at critical times.

## RESULTS

- The upgrade gave the operators consistent injection performance, even against hydrates, reducing the need to closely monitor their methanol program. If a hydrate block began, they now run a batch cycle

## REAL TIME BENEFIT

Full rate control,  
reduced production  
downtime and carbon  
footprint.

directly from the controller avoiding the costs of using a pressure truck.

- With pressure truck operations averaging \$1,250 per day over 6-7 days each month, the company eliminated up to \$8,750 per month in related costs. As a result, total estimated savings within the first few months of implementation exceeded \$25,000.
- The Sirius solution enabled precise, automated chemical injection, and increased operational control over the methanol program. In addition to operational efficiencies, downtime was eliminated.
- By moving away from pneumatic pumps, powered by natural gas, the company significantly reduced its greenhouse gas emissions, contributing to cleaner operations.
- The retrofit also reduced site visits and associated vehicle emissions, supporting a lower carbon footprint.



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