



Deployment Snapshot: IN2ERT™ for Multi-vessel System Purge

Challenge

- Complex steam-assisted gravity drainage (SAGD) process
- 5 vessels requiring purging
- 47 direction changes, including reverse flow
- Multiple obstructions
- High H₂S/LEL levels

Project

Improve performance of 2018 N₂-only purge, which required 5 trucks and 104 hours to complete

Execution

IN2ERT deployed to maintain a stable flow state throughout the entire process by purging all system parts at once

Results

- Improved performance with IN2ERT:
- Purging of both shell and tube-side heat exchanger
 - Purging of tower and internals
 - 80% time gain relative to 2018
 - 60% less N₂
 - 50% lower costs
 - No rework

In the Customer's words

"Relative to a similar vessel purge process in 2018, Linde's IN2ERT™ chemical service accelerated the timeline by 80%, reduced nitrogen consumption by 60%, cut costs by 50% and eliminated the need for rework. What's not to like?"

Process Engineer, Sales Oil Unit, Heavy Crude Oil Facility, Christina Lake, Alberta, Canada