

## TERMINAL PIPING REPLACEMENT Husky Energy | Cold Lake, AB

- Site measurement & 3D modelling
- Shop fabrication of piping (including 3200" of welding)
- Shutdown planning & coordination
- Cold cutting of old piping
- Cleaning & disposal of old piping
- Installation of replacement piping
- Electrical & instrumentation

Completion Date: August 2019

Contract Type: Reimbursable

Contract Value: \$500,000



Inspection of Husky's Cold Lake Terminal identified severe internal corrosion on a significant portion of the piping. An urgent repair was vital to Husky's nearby Tucker Lake facility as the entire production of diluted bitumen (30,000 bbl/day) was flowing through a section of the at-risk piping. Much of the piping was over 30 years old and accurate drawings were not available. Federation was engaged quickly in order to remove the heat tracing and insulation, complete a comprehensive site measure, create a 3D model and isometrics, shop fabricate the replacement piping, and complete the reinstallation - including electrical & instrumentation. The replacement of the section flowing from Tucker Lake was deemed a high profile shutdown activity and only an 8-hour window was available for this work. The shutdown was proficiently executed by Federation, Husky and supporting contractors without impact to Tucker Lake production. The overall project was completed with zero safety incidents, delivered under budget, and executed within an 8-week expedited timeline.

It was apparent that Federation was well prepared for the Tucker shutdown day. Thanks to the detailed planning and risk review, the day went off without a hitch.



- Paul Booth, P.Eng  
Project Engineer,  
Husky Energy

