

## Project Profile: Judah Hill Abandonment Plan

Client: ATCO Pipelines (ATCO)

Reference: Kim Klatchuk, Sr. Engineer (kim.klatchuk@atco.com)

ATCO Pipelines proposed to abandon approximately 4 kilometres of the Worsley McLennan Transmission line, a NPS 4 pipeline, located at Judah Hill, near the Town of Peace River, Alberta. This pipeline was influenced by geotechnical slope failures along the right of way, causing operational reliability issues and concerns for public safety. ATCO had decided to construct a new pipeline to provide the Town of Peace River gas supply via a new right of way outside the geotechnical hazard area. The new pipeline rendered this pipeline obsolete and ATCO decided to abandon the hazardous segment of the old pipeline.

Plex founders provided ATCO with an Abandonment Plan for the hazardous segment of the pipeline. This plan evaluated risks associated with abandoning the pipeline segment, and proposed project specific mitigation strategies to permanently remove the pipeline from service, while also ensuring long term safety to the public and the environment.

To develop the Abandonment Plan, considerations were given to the following

- Determination of abandonment in place versus pipeline removal
- No contamination to the environment caused by the internal pipeline cleanliness
- Elimination of the possibility of reintroduction of product into the line, and prevention of accidental operation of the pipeline
- Proper isolation and removal of all surface equipment, and return of the right of way to its native condition
- Review of watershed information, and determining potential water conduits
- Structural assessments under road and railroad crossings
- Establish a monitoring plan to manage future land usage

