

DEAD LEG **REMOVAL**

Buried pipeline dead legs are a persistent source of maintenance and non-compliance incidents. A dead leg is defined in API 574 (American Petroleum Institute) as:

"Components of a piping system that normally have little or no significant flow. Some examples include blanked (blinded) branches, lines with normally closed block valves, lines with one end blanked, pressurized dummy support legs, stagnant control valve bypass piping, spare pump piping, level bridles, pressure-relieving valve inlet and outlet header piping, pump trim bypass lines, high-point vents, sample points, drains, bleeders, and instrument connections. Dead legs also include piping that is no longer in use but still connected to the process (API 574, Page 3)".

The following should be considered when planning a project:

- If a pipeline is susceptible to internal corrosion for both the gas and liquid phases mitigation must be considered (Z662-19, 9.10.1, Page 285).
- The licensee "shall implement and maintain one or more methods to mitigate the likelihood of failure associated with internal corrosion" (Z662-19, 9.10.2, Page 285).







The majority of the internal corrosion mitigation methods including pigging programs, water treatment, injection of inhibitors/chemical or biocides, chemical or mechanical removal of dissolved gases, gas blanketing, internal coating or liners, and design elements are practical while the pipeline is operational (Z662-19, 9.10.2, page 285);

However, when a pipeline is deactivated to become a dead leg the most effective method to manage the liability is to eliminate the dead leg from the pipeline system.

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HOW WE CAN HELP

To prevent non-conformance dead legs from contravening federal and provincial legislation, the dead leg must be removed from the pipeline gathering system.



Summit has a team of experienced personnel, equipment operators, and tradesman who can coordinate the removal of dead legs and repair/ reactivation of the pipeline to remain operational.

- Pre-job planning
- Required notifications and agreements (proximity, road use, D56 notifications, etc.)
- Locating of dead legs (Alberta One Calls, line locate sweeps, hydrovac exposure of target pipelines)
- Pigging/purging the pipeline prior to pipeline exposure
- Equipment and personnel to expose the pipeline dead leg
- Provision of pre-tested pipe (QA/QC packages included)
- Journeymen welders to repair the pipeline to remain operational
- Hydrotesting (as required)
- Backfill

HEALTH, SAFETY & ENVIRONMENT

CHINELOFTER AND STREET REPORT AND ADDRESS

Summit is committed to protecting the health and safety of our employees, contractors and the public in the communities in which we work and live. Our **Work Smart**, **Work Safe** focus is integral to our day-to-day business practices.

We not only practice and focus on safety daily in our operations; we strive to educate, continuously improve and evolve our policies and practices.



ADDITIONAL SERVICES

- ENVIRONMENTAL PLANNING & PERMITTING
- CONSTRUCTION & ENVIRONMENTAL INSPECTION/ MANAGEMENT
- REMEDIATION & RISK MANAGEMENT
- RECLAMATION & RESTORATION CONSULTING
- DRILLING WASTE MANAGEMENT & OPERATIONS
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- ICT, WATERJET AND CONVENTIONAL CUT AND CAPS
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- SPILL RESPONSE & REMEDIATION

Call: 403 802 3633 | Emergency Spills: 1 866 836 6988 | sales@summitearth.com | www.summitearth.com