

Wisconsin Pressure Test Monitoring Case Study

High-pressure testing. Real-time insight. Verified leak identification.

At a glance

PipeSense monitored a 32,688 ft section of 4 inch pipeline during hydrostatic testing up to 1,840 psi. A pressure drop during testing was traced to a pre-existing branch line leak connected to the plant, identified using pressure data alone.

Key metrics



32,688 FT

Pipeline section monitored



4 INCH

Pipeline diameter



1,840 PSI

Maximum test pressure



2

Pressure hold phases monitored

CHALLENGES



The project required monitoring fill, pressure up, and two hold phases under high test pressures. No pig was used during fill, limiting the ability for early detection. A pressure drop observed during testing required rapid analysis to determine the source.

SOLUTIONS



PipeSense provided real-time monitoring throughout fill, pressure up, and hold phases. Pressure data analysis isolated the issue to an unidentified branch line leaking into a plant, with the location determined using pressure data without pig tracking.



Real-Time Monitoring



High-Resolution Data Analysis



Actionable Integrity Insight

BENEFITS



1

Verified Leak Location

Pressure data alone was used to identify and locate a pre-existing branch line leak within the test section.

2

Increased Test Confidence

Real-time monitoring ensured that pressure deviations were analyzed immediately, reducing uncertainty during critical test phases.

3

Data-Driven Insight

Clear pressure trends provided defensible, documented evidence to support findings and guide corrective action.



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