

# Hydrate Plug Detection Case Study

Blocked line. Precise location. Faster resolution.

## At a glance

PipeSense deployed PipeScan to locate suspected hydrate plugs within a 12.5-mile pipeline segment. Using pressure pulse analysis, multiple blockage points were identified, enabling targeted remediation and reducing downtime.

### Key metrics



**12.5-MILE**

pipeline segment analyzed



**5**

blockage points identified



**2-3**

second pressure pulses



**SINGLE-DAY**

location results



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## CHALLENGES



The operator suspected a hydrate plug within a long pipeline segment but had no clear indication of its exact location. Without precise data, remediation efforts spanning weeks caused risked prolonged downtime, increased costs, and risked potential safety hazards from uncontrolled pressure release.

## SOLUTIONS



PipeSense deployed PipeScan using high-frequency pressure monitoring and controlled pressure pulse testing. Advanced signal analysis identified reflection points and triangulated multiple blockage locations, providing accurate distance and GPS-based guidance for targeted intervention in around 1 day.



**Real-Time  
Monitoring**



**High-Resolution  
Data Analysis**



**Actionable Integrity  
Insight**

## BENEFITS



**1**

### Precise Blockage Location

Identified multiple hydrate plug locations within a 12.5-mile segment, eliminating guesswork.

**2**

### Faster Issue Resolution

Location data was generated in a single day, reducing time spent on trial-and-error remediation.

**3**

### Improved Safety & Efficiency

Minimized risk of uncontrolled release and reduced unnecessary field intervention.