Farm Tap Detection & Hydrotest Monitoring Case Study

Hidden infrastructure. Real-time insight. Verified integrity.

At a glance

PipeSense supported hydrostatic testing where pressure loss revealed undocumented infrastructure. Using PipeTest and PipeScan, hidden farm taps and Dresser couplings were identified, enabling targeted repairs and a successful test hold.

Key metrics

~100 FT
leak location accuracy

8-HOUR
hydrotest hold achieved

10 PSI/HR
Early anomaly identification

CHALLENGES

The operator initiated hydrotesting on a pipeline segment expected to be fully documented and compliant. During fill and stabilization, pressure loss exceeded expected thresholds, indicating unknown leak paths. Historical records and mapping did not reflect the presence of farm taps or legacy fittings, creating uncertainty around the source of the issue.

SOLUTIONS

PipeSense deployed PipeScan with high-frequency pressure monitoring to analyze real-time pipeline behavior during pig runs. Advanced analytics identified anomaly points linked to hidden farm taps and Dresser couplings, providing GPS-based locations for targeted excavation and repair.

Real-Time Monitoring

High-Resolution Data Analysis

Actionable Integrity Insight

BENEFITS

1

Hidden Infrastructure Identified

Previously undocumented farm taps and fittings were located using pressure data alone, providing visibility into unknown pipeline features.

2

Reduced Time & Excavation

Leak locations were narrowed to within approximately 100 feet, minimizing unnecessary excavation and accelerating repairs.

3

Successful Test Validation

Following targeted repairs, the pipeline successfully passed the hydrotest hold, restoring confidence in system integrity and compliance.

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