

Challenge:

Saturating pipe wall through speed excursions in low pressure while providing pinpoint accuracy to defects.

Pinpoint Accuracy on Metal Loss in Low Pressure Environments with Speed Incursions

Lower Valley Energy – Pinedale, WY – Natural gas inspection

Result:

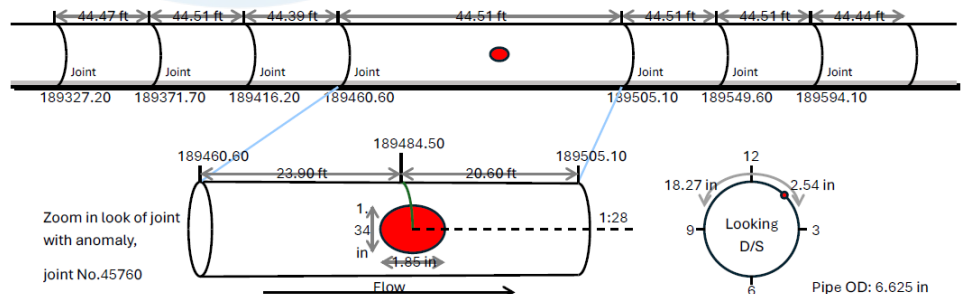
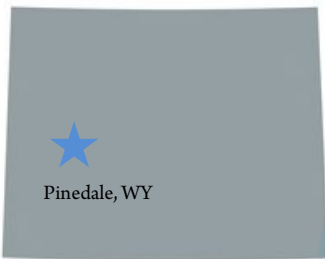
Multiple dig verifications with precise location and metal loss calls with Cypress ILLI's UHR EcoVision technology.

Cypress inspected 47 miles of 6" natural gas pipeline in December 2023. Lower operating pressure creates speed excursions throughout the inspection, especially around bends or through fittings. The **EcoVision™** tool launched at 3 MPH, and reached a peak speed of 21 MPH. Our ruggedized design successfully navigated high speed excursions without any damage.

Our advanced technology with 1,408 hz microprocessors allowed us to capture all the data with 100% sensor coverage. Many competitors' tools would have lost critical data, or the tool would have been damaged.

Our experienced Level 3 data analyst completed the reporting utilizing our **EcoView™** software identifying several significant anomalies. The customer commissioned a dig for verification that was confirmed by a third-party UT NDE vendor.

Lower Valley Energy was able to meet all DOT PHMSA reporting guidelines and was extremely pleased with Cypress as outlined in the client reference letter below.





CUSTOMER REFERENCE



October 31, 2024

To Whom it May Concern:

We began in 1937 and provide electricity and natural gas to businesses and consumers in Wyoming and Idaho. We built our first natural gas lines in 1996. After having some challenges with other in-line inspection companies and their technology we began looking for a new vendor.

In 2022 we began working with Cypress In-Line Inspection and met their team and learned about their fifth-generation ultra-high resolution MFL inspection technology. We decided to try their EcoVision™ technology on a 47 mile in-line inspection of a 6" natural gas pipeline running through rugged terrain with .188 wall pipe thickness, and some .219 wall pipe at a few locations. Their highly experienced team successfully ran their tool, and we provided 550-650 psi of flow. The tool ran for over 16 hours at approximately 3 MPH. At one point the tool hit a top speed of 21 MPH and remarkably still recorded the data because of their latest generation technology and microprocessor's that can process data much faster than many of their competitors which is important when you have a speed incursion. They had first run success and 100% coverage with no issues.

The Cypress data analysis team provided excellent timely reporting, and they identified some significant anomalies. We commenced a dig program on the identified anomalies and performed UT testing on the areas of concern to confirm the wall thickness. Our first dig was on .188 pipe and the Cypress EcoVision™ technology showed 68% metal loss which was confirmed with the third party NDE UT exam.

The Cypress EcoVision™ MFL tool/technology and their EcoView™ data analysis software and reporting was fantastic! I was amazed at the pinpoint accuracy of it. Your team was incredible to work with! They really took care of us! (and all my questions)

I am pleased to serve as a reference and satisfied customer.

Craig Coles
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