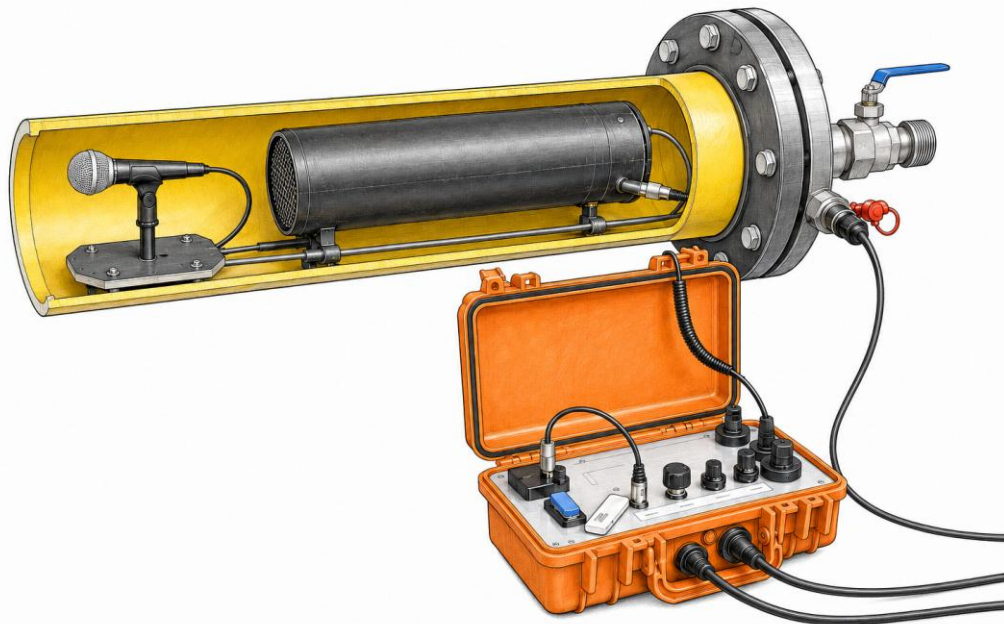


APT PNEUMATIC PRESSURE TESTING

Gas to the West — full project case study



24.3 km

PIPELINE TESTED

7 bar

TEST PRESSURE

4

MAJOR SECTIONS

668 hrs

RECORDED TESTING

PROJECT OVERVIEW

MTS Contracting Ltd supported the Gas to the West programme in Northern Ireland with specialist APT pneumatic testing across long-distance PE and steel pipeline sections at Cookstown, Derrylin and Omagh.

THE CHALLENGE

The newly constructed network included pipeline sections up to 8.3 km long. The client required reliable integrity evidence, continuous monitoring and auditable acceptance records for each completed section.

OUR ROLE

MTS planned and installed the APT equipment, managed pneumatic testing, monitored pressure and acoustic response, produced daily records and test graphs, investigated anomalies and issued acceptance documentation.

Client / installer
Murphy GMC

Network operator
SGN Natural Gas

Test Specification
SGN/MSL/1

Four long-distance sections, one controlled testing approach

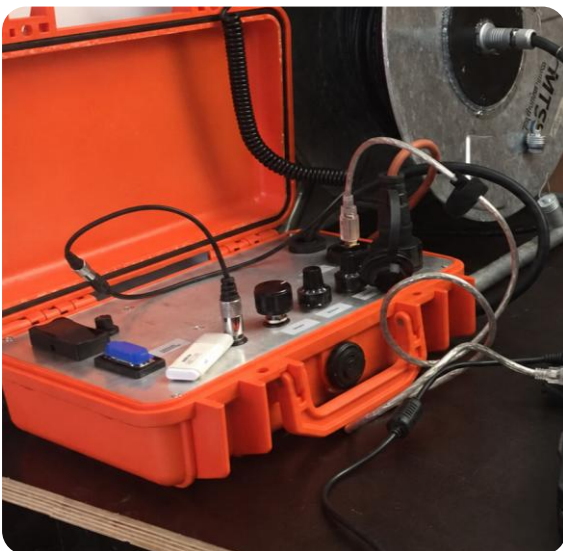
TEST SECTION	PIPEWORK	LENGTH	Conventional TEST	APT TEST
Cookstown TL10-TL1	400 mm SDR11 PE, 300 mm steel, 250 mm SDR11 PE, 180 mm SDR11 PE, 125 mm SDR11 PE	8,355 m	1224 h	326 h
Derrylin TL11-TL16	315 mm SDR11 PE	6,404 m	588 h	161 h
Omagh TL4-TL5	315 mm SDR11 PE + 300 mm steel	4,670 m	449 h	95 h
Omagh TL5-TL6	315 mm SDR11 PE + 250 mm steel	4,870 m	447 h	86 h

TOTAL PROJECT EVIDENCE

24,299 meters tested in 4 test sections

APT 668 recorded hours

2040 hours saved



CONTROLLED DELIVERY

Each test used calibrated Druck pressure instrumentation, in-pipe acoustic equipment and continuous data capture. Daily pressure records and APT graphs supported assessment and acceptance.

RESPONDING TO FINDINGS

At Derrylin, leakage was identified at captive vents. MTS agreed a contingency plan with the Authorising Engineer, isolated and rectified the affected fittings, leak-tested them and continued the APT test.

PROJECT OUTCOME

Auditable integrity evidence was delivered across more than 24 km of strategic gas infrastructure.