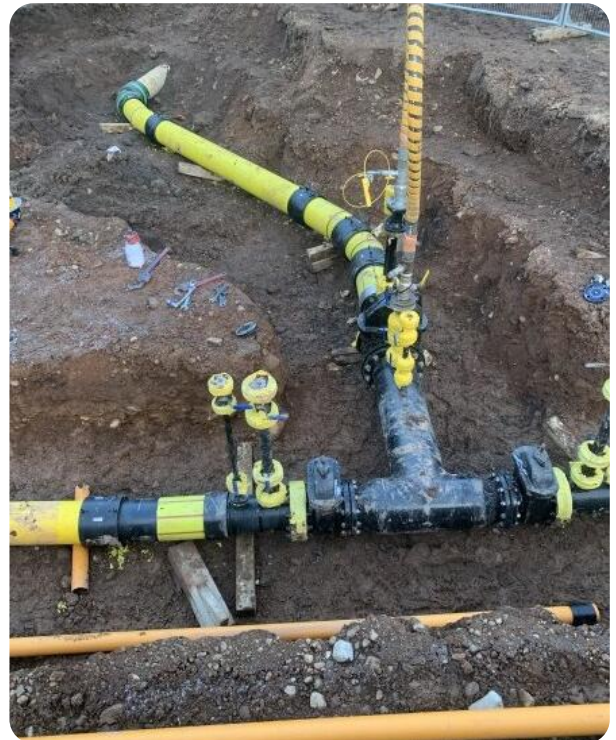
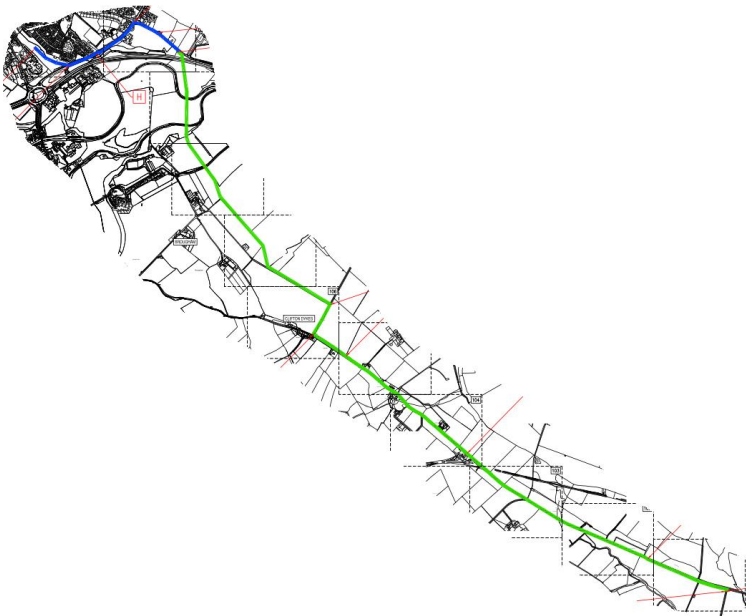


TESTING • DRYING • CONNECTIONS

Penrith network reinforcement for NGN



7.5 km

315 mm IP inlet

1.5 km

315 mm MP outlet

>60 m

ELEVATION CHANGE

IP-MP

NETWORK
REINFORCEMENT

THE REQUIREMENT

NGN required a new IP-to-MP regulator installation to reinforce the medium-pressure network in Penrith, supported by a new IP inlet and MP outlet connecting into the existing system.

MTS SCOPE

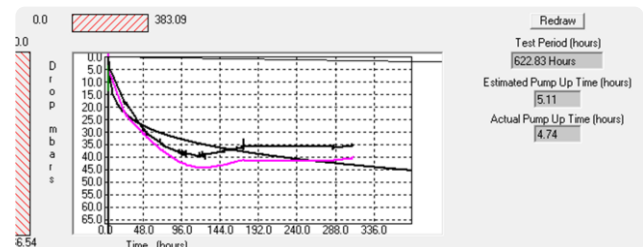
MTS delivered hydrostatic and APT pressure testing, desiccant drying, double IP and MP squeeze-offs, bypass construction, material procurement, purging and MP commissioning.

PLANNED AROUND THE ROUTE

Because the IP pipeline crossed more than 60 m of elevation, the hydrostatic test was divided into two controlled sections. This also allowed testing to progress while the remaining pipeline was still being installed.

CONTROLLED PROJECT DELIVERY

APT testing reduced the programme by approximately 65%



888 hrs

CONVENTIONAL + CONDITIONING

305 hrs

APT TEST PROGRAMME

65%

TIME SAVING

TESTING AND DRYING

The two IP sections were hydrostatically tested, tied together and then tested as a complete 7.5 km main using APT. The pipeline was subsequently desiccant dried in preparation for commissioning.

CONNECTIONS AND BYPASSES

Double 250 mm squeeze-offs allowed 300 mm tees to be inserted on the IP and MP systems. Radius Subterra supplied and installed the 250 x 90 mm branch saddles used for the bypass arrangements.

COMMISSIONING

After testing and connection works, the squeeze-offs were released and the new MP main was purged and commissioned to the new IP-to-MP regulator.

THE OUTCOME

The integrated approach cut the indicated test and conditioning programme from 888 to 305 hours while completing the required testing, drying, connections and commissioning.

DELIVERY PARTNERS

MTS Contracting Ltd • Radius Subterra • NGN