

PIPE JACKING CASE STUDY

Pannal to Asselby Gas Pipeline



www.pipejacking.org

PROJECT	Pannal to Asselby Gas Pipeline
CLIENT	National Grid/A B Rhead Assoc.
CONTRACTOR	A E Yates Trenchless Solutions Ltd
PIPE SUPPLIER	F P McCann
TUNNELLING MACHINE	Herrenknecht and Iseki Unclemole
VALUE	£1,600,000



PROJECT OVERVIEW

In preparation for the construction of a cross country gas pipeline from Asselby Above Ground Installation (AGI) to Pannal AGI, in West Yorkshire, National Grid required the installation of three microtunnels below existing railway lines.

DESCRIPTION OF WORKS

Three under track crossings were installed to provide permanent concrete sleeves through which 1220mm diameter heavy wall gas pipelines could be installed.

The three crossings, 50, 60 and 100 metres in length were installed using 1500mm diameter steel banded concrete jacking pipes. Pipes were jacked using a full face slurry machines through ground conditions that varied between the locations from stiff clay to moderately strong sandstone.

Two piled and four battered thrust and reception pits, with depths up to 10m, were constructed to accommodate the jacking rig and jacking machine exit.

Network Rail's requirement for 24/7 working was readily accommodated owing to the rural location of the crossings.

FURTHER INFORMATION: www.aeyates.co.uk

