



# ISLE OF GRAIN 600MM WELDED GAS PIPELINE E.ON UK LIMITED

1100m Horizontal Directional Drill.

**STOCKTON**

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**“I have found the Stockton Drilling management team competent and enthusiastic regarding quality, safety and environmental management. Management procedures are in place to comply with CDM and HSE requirements. I would be happy to employ Stockton Drilling for any future pipe work projects.”**

**M.E. COSTON**  
CONSTRUCTION SITE MANAGER  
E.ON UK

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### PROJECT SUMMARY

- Full project and site management
- 2km, 600mm gas line
- 1100m Horizontal Directional Drill
- Open-cut
- Advanced environmental management system
- Asbestos contamination
- Challenging geology and ground conditions
- Tight environmental controls
- Protected habitats

### THE PROJECT

The 2km 600mm gas pipeline will feed the new Isle of Grain power station. The challenging route crosses heavily contaminated ex-refinery land and crosses under a major cryogenic LNG line. Challenging geology and the usual environmental concerns added to the difficulty of this project. A combination of open-cut techniques and Horizontal Directional Drilling were used to complete the project, which also included the construction of an AGI pigging facility.

### HDD

Horizontal Directional Drilling, using the 250 tonne maxi-rig, enabled Stockton to create a secure route without disturbing the sensitive cryogenic line. A pre-welded and tested pipeline string was then pulled through the prepared hole, completing the crossing with no risk of subsidence or post construction settlement.

### ENVIRONMENT

A brownfield ex-refinery site meant that particular attention had to be paid to potential contamination and difficult geology and ground conditions over the whole pipeline route. In addition Stockton had to deploy an advanced environmental management system, independently audited due to the challenging environmental conditions.

Located in an environmentally sensitive site with vole and great crested newt habitats meant that strict constraints were placed on Stockton by both the NGPHL and Medway Council environmental plans. Stockton conducted an in-depth assessment and a Stockton environmental advisor was present on-site throughout the project, supported by a specialist ecologist.

### PROJECT MANAGEMENT

Stockton managed all aspects of the project, liaising closely with designers Mouchel Limited and the client, with particular focus on environmental and health and safety management, from site mobilisation and personnel induction to regular tool box talks – all customised to tackle the particular challenges of the Grain site.

### CONTACT US

Stockton Drilling Limited  
15 Navigation Court  
Calder Park, Wakefield  
United Kingdom WF2 7BJ

Tel +44 0 1924 242 128  
procurement@stocktondrilling.com  
www.stocktondrilling.com

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