

Babbage Field Development – Preliminary Pipeline Design

GAS

E.ON Ruhrgas

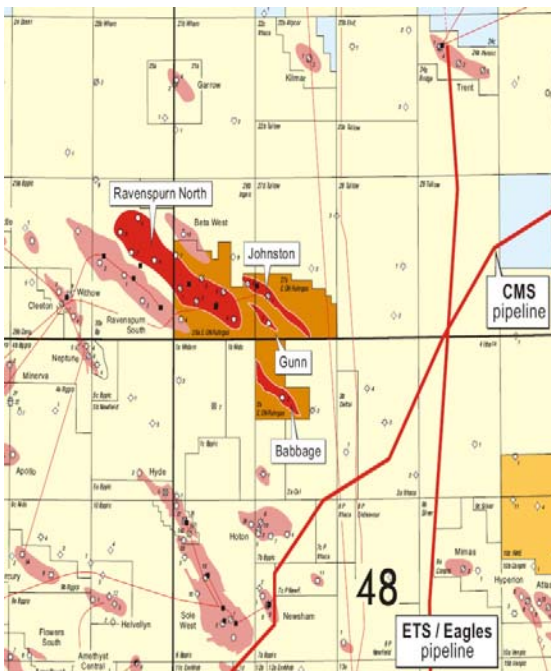
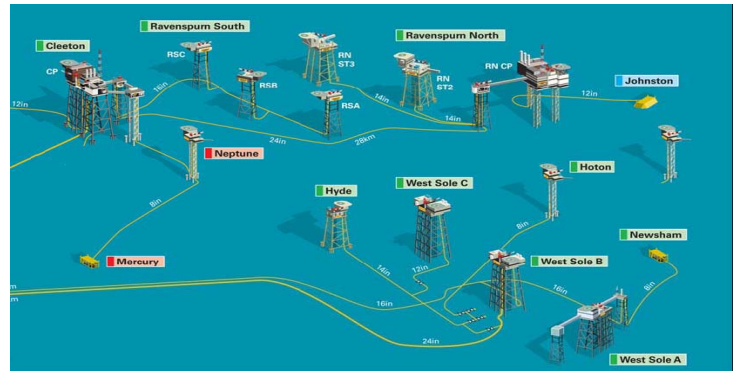
The Babbage field is located in 40-45m of water and has a design life of 25 years as a minimum facility wellhead platform, which will be defined as a normally unmanned installation after the first two years. The initial 3 wellheads may be extended to a maximum of 5, and the platform export will be via a wet gas venturi meter into a new 12" 28km carbon steel pipeline, connecting to the existing West Sole Bravo (WSB) 14" subsea tee.

A pipeline pressure protection system designed by others prevents the Babbage wells over-pressuring the West Sole System (WSS) design pressure of 97bar. Temporary facilities for inspection were provided at the WSS tie in.

The pipeline route required sand waves / ripples to be removed or swept with dredgers in the vicinity of WSB prior to pipeline installation, to avoid excessive free spanning.

Andrew Palmer & Associates scope of work:

- Pipeline Basis of Design
- Field layout, approaches and crossings
- Material selection & specification
- Materials take off
- Pipeline mechanical design
- Crossing design
- Testing and pre-commissioning philosophy



Location: Southern North Sea, UK

Block: 48/2

Water depth: 40-45m

Duration: 12 weeks

Contract: Lump Sum

Manhours:

<500	500-5000	5000-10,000	>10,000
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Penspen Value:

<\$100k	\$100k-500k	\$500k-1,000k	>\$1,000k
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