

Rita Detailed Design

E.ON Ruhrgas

GAS

The Rita development involves a single bilateral subsea horizontal well, tied back to the ConocoPhillips operated Caister Murdoch System (CMS) subsea infrastructure at Hunter via a circa 14 km long, 8-inch NB carbon steel flowline. The Hunter wellhead has an existing daisy chaining facility with double valve isolation which allows for tie-in of the production flowline via a tie-in spool.

The new Rita wellhead assembly consists of a horizontal subsea tree, complete with a Wellhead Protection Structure (WPS) and a hard pipe Header Spool assembly within the WPS. The Header Spool assembly incorporates a Venturi Flowmeter.

The Rita well is controlled by a new multiplexed electro-hydraulic control system connected to a tree-mounted Subsea Control Module. The control system is an extension of the existing control system from Hunter. Gas production from the Rita field is controlled and monitored from the Murdoch platform.

Andrew Palmer & Associates scope of work:

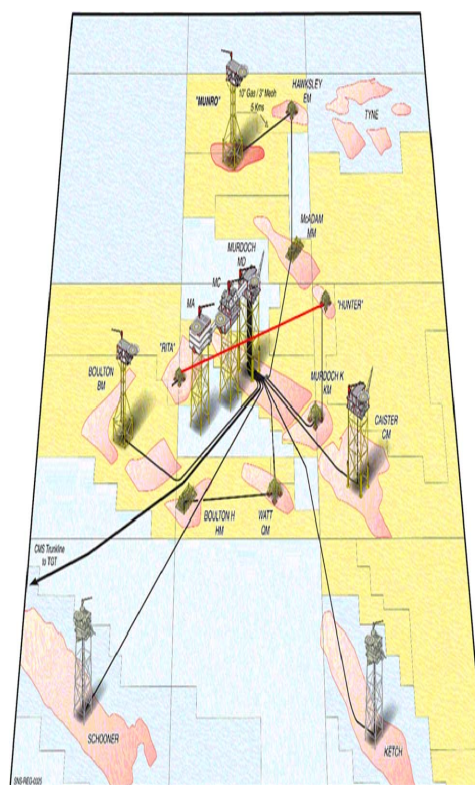
- Pipeline and header spool mechanical design
- Pipeline routing and alignment sheets
- Approaches and tree tie-in design
- Pipeline Works Authorisation
- Pipeline crossing design
- Flow assurance review
- Material Selection/ material take off
- Management of Out-of-Straightness Analysis

Location: Southern North Sea, UK

Block: 44/21 and 44/22

Water depth: 35m

Duration: 25 weeks



Contract:	Lump Sum			
Manhours:	<500 <input type="checkbox"/>	500-5000 <input checked="" type="checkbox"/>	5000-10,000 <input type="checkbox"/>	>10,000 <input type="checkbox"/>
Penspen Value:	<\$100k <input type="checkbox"/>	\$100k-500k <input checked="" type="checkbox"/>	\$500k-1,000k <input type="checkbox"/>	>\$1,000k <input type="checkbox"/>

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