

Macedon Gas Field Development FEED

PROJECT DETAILS:

Location:	Northern Carnarvon Basin, Western Australia
Contract Value:	AUD\$20 million (2009)
Contract Period:	August 2009 - September 2010



CLIENT: BHP Billiton

Scope of Work:

The Macedon Field Development Definition Phase consists of Front End Engineering Design (FEED) for BHP Billiton Petroleum's Macedon domestic gas project, proposed for the North West of Western Australia. Clough based the FEED execution team in Houston, working closely with BHP Billiton and were supported by its Perth Office for input into local project execution strategy.

The FEED deliverables included technical definition documentation, capital cost estimate and the project execution schedule for the following scope of work:

- Four subsea wells tied back via a subsea gathering system
- Subsea umbilical for supply of control, power and chemical injection from shore
- A 20" wet gas pipeline from the subsea gathering system to the onshore gas plant (OGP)
- Onshore gas plant for processing and conditioning of well-fluids, including all required infrastructure and utilities to support the development
- A 20" sales gas pipeline from the onshore gas plant to the Dampier to Bunbury Natural Gas Pipeline

Clough completed the FEED deliverables in July 2010. These deliverables were used to support BHP Billiton's internal sanction process. Scope of work also included further project definition and to progress critical path actions.

The Macedon Gas Field is located in the Northern Carnarvon Basin, approximately 100 kilometres west of Onslow and 40 kilometres north of Exmouth, Western Australia and contains around 800 billion cubic feet of gas that is sufficient to supply around 170 terajoules of gas daily to local industry.