

Wheatstone Marine Facilities Project: Product Loading Facility and Tug Berths

PROJECT DETAILS:

Location:	Onslow, north west Western Australia
Contract Value:	A\$405 million (2012)
Contract Period:	February 2012 - Current
Safety Statistics:	Manhours: 39,151 LTIFR: 0 (as at March 2013)



Key Aspects

- ✓ Design and construct
- ✓ Remote location

Project Highlights

- ✓ Integrated design and work preparation team
- ✓ Cantilever bridge construction method with limited environmental impact
- ✓ Supported by BAM and Clough's in-house facilities

OWNER: Chevron CLIENT: Bechtel

Project:

BAM Clough was awarded the contract by Bechtel to design and construct the Product Loading Facility (PLF) and Tug Berths associated with the Wheatstone Project LNG Plant near Onslow in Western Australia. The feed gas with condensates will be delivered via subsea pipeline from gas fields located off Northwest Coast of Western Australia in the Carnarvon Basin.

Joint Venture:

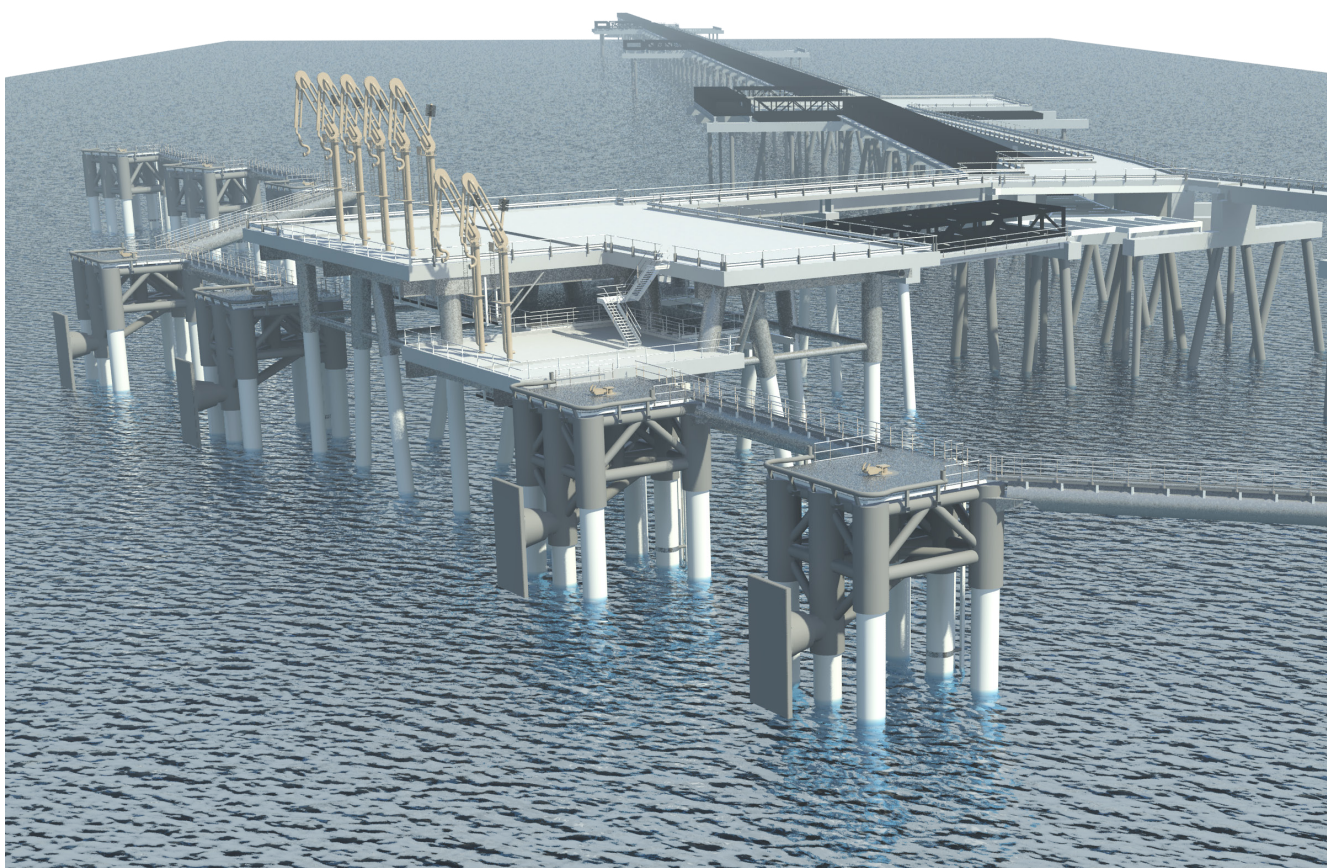
BAM Clough Joint Venture is a 50 / 50 integrated joint venture between BAM International bv and Clough Limited. Established in 1964, the joint venture has successfully delivered 13 major jetty projects for the energy and resources sectors. BAM Clough has in-house engineering and procurement capability to support the construction execution. The joint venture primarily self performs projects with minimal reliance on subcontract scope.

Scope of Work:

The scope consists of a 1.2 kilometre jetty with Marine Operations Platform, product loading platform incorporating a single LNG and Condensate load-out berth with associated breasting and mooring dolphin structures. Design, fabrication of topside piperack modules and platform modules with piping installation, insulation, module testing and ultimate completed piping modules installation and hook-up with final testing also forms part of the scope.

Design, fabrication and construction of Tug berths within the breakwater harbour are also required. Berthing arrangement is a series of pile-positioned floating mooring pontoons, articulated walkways, elevated access catwalks and utility corridor.

Construction methodology is primarily a combination of jack up barge, crane barge and cantilever bridge (CLB). This arrangement maximises work fronts, can create schedule flexibility and maximises land based activities.



BAM Clough has designed and fabricated the CLB and its supporting equipment to be used for the construction of the approach trestle from the abutment to the loading platforms which covers the initial land based portion and over a section of water which is not accessible by conventional marine spread. This innovated design ensures construction efficiencies, safer working environment and has minimal environmental impact.

Contracting strategy is EPC lump sum fixed price. Engineering design and procurement is executed by BAM Clough. Major construction, plant and equipment are owned by BAM Clough.