

Port Bonython Liquids Facilities (Stony Point)

PROJECT DETAILS:

Location: Stony Point, South Australia

Contract Value: A\$45 million (1982)

Contract Period: January 1982 - June 1983



Key Aspects

- ✓ Turnkey Design and Construct contract
- ✓ Fast Track Schedule
- ✓ 2.4km Approach Jetty
- ✓ Phased Handover
- ✓ Severe Weather Conditions

Project Highlights

- ✓ Delivered on schedule
- ✓ Additional scope added – submarine pipeline
- ✓ Innovative design concepts set new standard in early 1980's

CLIENT: Santos Ltd

Scope of Work:

The Harbourworks Clough Joint Venture (HCJV, now BAM Clough), completed a turnkey design and construct contract for the installation of a shipping terminal to support the Cooper Basin oil production operations.

Working to a fast-track schedule the contract involved the design and construction of a 2.4 kilometre approach jetty, complete with support racks for multiple pipelines and concrete access roadway, a loading platform, four breasting dolphins, four mooring dolphins and a continuous fendering system, connecting walkways and all mooring equipment.

The approach trestle included two major structural platforms, one for pumping equipment and one for services and amenities.

A phased handover schedule provided for limited loadout capacity of crude oil within a year, with final completion achieved six months later.

The berthing face was located 2.4 kilometre from shore for environmental reasons. Such a long approach required an innovative design concept and overhand construction method to be developed by Harbourworks Clough, entailing steel boxed headstocks, steel girders and pipe racks and precast, prestressed concrete roadway units.

An extensive spread of crane barges, cargo barges and tugs - including the 63 metre "*Marlin*" from Holland - was mobilised for the project. Despite often severe weather conditions, the contract milestone dates were achieved.

As a variation of the main contract, HCJV was awarded a contract to construct a liquid hydrocarbons loadout pipeline (submarine - bottom tow including Marine Plough) with precast weight coating on pipe. A temporary submarine pipeline was installed between the shore and wharfhead to enable staged loadouts.

