



Civil & Marine Pipelines Tunnel Mechanical

NATURAL SELECTION

MACDOW

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DOWELL
CREATIVE CONSTRUCTION™

Our innovative approach to challenging projects ensures we are a supplier of choice for our oil and gas clients.



Kupe Spoolbase, NZ

The Kupe Spoolbase contract, forms an integral part of the Kupe Gas Field Development and includes civil works, structural components and spoolbase fabrication. A spoolbase operation at Picton on the northern tip of New Zealand's South Island; bridging a 60 m storm water pond that the pipe will be carried over; welding a total of 28 km of pipe into 70 individual 400 m long strings (pipe stalks). Welding the tie-ins as the pipe is spooled onto Technip's Apache Reel Barge.

Hin Leong Universal Terminal, Singapore

Part of Hin Leong Trading (Pte.) Ltd's Universal Terminal development of a 2.3 million m³ oil storage terminal on Jurong Island; the largest single marine terminal to be constructed in Singapore. The project consists of 12 jetties, ranging in size from 5,000DWT to 320,000DWT; as well as dredging works and a 1 km long seawall. The two VLCC berths will be built side by side, and can accommodate vessels as large as 320,000DWT. This unique feature allows for active bulk-breaking of larger cargoes into smaller parcels.

Telfer Gas Pipeline, Wa

The class 600 pipeline utilising a single compressor station with one duty and one stand-by compressor. The pipeline traverses 100 km of flood plains, including a 600 m HDD crossing of the De Grey River, before a 300 km section of the Great Sandy Desert to the very remote Telfer mine site. This region is one of the hottest environments in Australia passing to the north of Marble Bar. The pipeline was designed to have a high level of reliability and have the capability of expanded capacity by the addition of further compression to provide for future expansion of the Telfer goldmine or the connection of existing or new mining projects.

Helios Bulk Blending Facility, Singapore

Construction of a new 448,000 m³ oil storage terminal on Jurong Island. The works included the procurement, construction, and installation of all civil, building, structural, mechanical (excluding storage tanks), piping, electrical and instrumentation works for the landside storage terminal. topside works on the new finger pier, and topside improvement works on the existing VLCC Jetty.

We pride ourselves on being a local specialist with international expertise in delivering technically challenging oil and gas projects. Our in house design capability, flexible project delivery and intuitive relationship management ensure we deliver value to every client, regardless of the challenge. Our multi-discipline capability also means we offer our clients an integrated project approach. So whether your project includes recovery, outloading, processing, pipeline or a marine terminal we offer a customised project solution.



Braemar Gas Pipeline & Power Station, Qld

The Braemar Pipeline Project supplies natural gas to the Braemar Power plant from Arrow Energy's Tipton West coal seam gas processing facility. The works included engineering, procurement, construction and commissioning (EPCC) delivery of two pipelines - the 8 km long 12" pipeline from the Queensland Gas Windibri Lateral and the 56 km long 16" gas pipeline from the Tipton West gas processing facility to the Braemar Power Station. Also included was a custody transfer station, an offtake valve and a telecom control loop back to the control centre in Brisbane.



BTC & SCP Gas/Oil Pipelines, Azerbaijan

The BTC and SCP pipelines constructed by McConnell Dowell in joint venture completed a vital link in the 1,768 km pipeline running from the Caspian Sea oil and gas fields through Azerbaijan, Georgia and Turkey. The project consisted of an EPC contract for dual 42" diameter automatically welded pipelines, the BTC (Baku – Tbilisi – Ceyhan) crude oil pipeline and the SCP (South Caucasus Pipeline) natural gas pipeline. Both pipelines followed the same 442 km route from the Sangachal terminal, 46 km from the Azerbaijan capital of Baku, to the Georgian border. Utilising a 250 t capacity HDD rig, McConnell Dowell's specialist HDD subsidiary, Stockton Pipelines, completed seven horizontal directional drill crossings ranging from 494 m to 1,002 m in length, for installation of API-5L Grade X70 tri-laminate coated pipe, as well as the associated separate installation of 150 mm diameter steel pipe to house a fibre-optic cable.



Very Large Crude Carrier Twin Jetties & Delivery Pipelines, Singapore

One of the largest jetty developments in the region including construction of two berths of 40,000 to 320,000 DWT; fuel unloading system of 16 million Litres of crude oil per hour; pre-cast concrete jetty head platforms each supported by 30 steel tube piles; eight reinforced concrete berthing dolphins; 120 m long access trestles connecting to each berth. The project also included a topsides package for each platform including four 400 mm dia marine loading arms, 8 km twin 1,250 mm diameter pipelines buried 6 m below surface level of reclaimed land.

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