

A large, white and orange horizontal directional drilling rig is shown in operation on a construction site. The rig is positioned on a dirt surface, and a long, orange drill pipe extends from the rig towards the right. Several orange traffic cones are placed around the rig. In the background, there are stacks of pipes and other construction equipment. The sky is clear and blue.

HORIZONTAL DIRECTIONAL DRILLING

MACEDON FIELD DEVELOPMENT PROJECT
Australia



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Client: BHP Billiton/STREICHER-CLOUGH JV

BHP planned to develop the Macedon gas field by producing and delivering natural gas to the Dampier to Bunbury Natural Gas Pipeline near Onslow. The Macedon gas field was discovered in 1992 and appraised during 1993-1994. A part of the onshore scope had to be installed by HDD below the culturally protected coastal dune for a 20" gas pipeline and a 30" umbilical casing pipe. The transportation of equipment was conducted with a self-designed skid along a 4 km beach section to the drill site. The works were partly carried out during the hurricane season, but despite all challenges the project was concluded on time and budget.

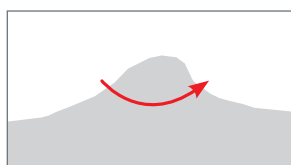
Project details

Client	BHP Billiton
Main Contractor	STREICHER-CLOUGH JV
Scope of work	Dune crossing
Location	Onslow, Australia
Total Length	2 x 890 m
Diameter	20" product pipe, 30" umbilical line
Geology	Sand and clay
Equipment	350 t HDD Rig
Contract Period	Commencement – September 2011 Completion Date – March 2012
Contract Value	5.5 million AUD



Challenges

- Location: culturally protected area, possibility of hurricanes
- Logistics: beach transport of equipment



Dune crossing