

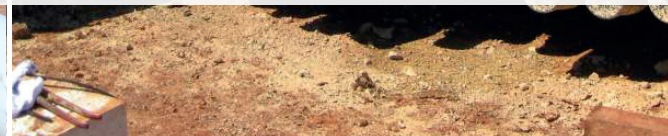


HORIZONTAL DIRECTIONAL DRILLING

DEVIL CREEK PROJECT
Western Australia



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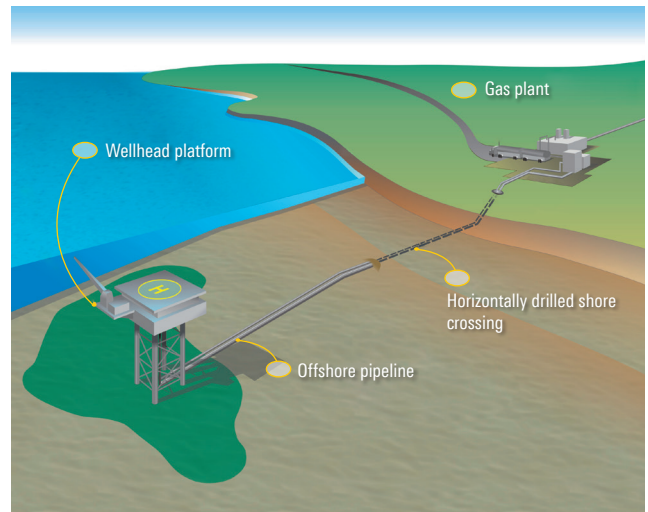


Client: Apache Energy Limited (Australia)

The HDD crossing was part of an Apache Greenfield project to develop a new offshore well head and onshore gas plant. Very high environmental, health, safety and technical compliance was necessary to complete the project. The project was completed to budget.

Project details

Client	Apache Energy Limited (Australia)
Scope of work	HDD Shore crossing and installation of product pipe
Location	65 km south of Karratha, WA
Total Length	1 x 1,850 m
Diameter	24" Hole, 16" Steel pipe
Geology	Sand, granite and dolerite
Equipment	350t HDD Rig
Contract Period	Commencement – July 2009 Completion – August 2010
Original Contract Value	AU\$ 13 million (2009)



Pipethruster

The Pipethruster is a device used to install pipelines through a combination of a clamping system and a HDD drilling rig. The unit can be mounted to existing 350 t HDD drilling rigs with the thruster frame fixed to the sliding carriage of the rig. No modifications are required to the drilling rig and both the push and pull force come from the carriage moving along the HDD rig. The clamping system uses software built into the standard drilling control cabin, therefore allowing the entire installation process to be conducted from the control cabin. The maximum installation speed is determined by the speed of the drilling carriage and the clamping time. For this unit it is approximately 30 m/min. With the Pipethruster, a pipeline from between 10" to 20" can be either pushed or pulled. Depending on the diameter of the pipe and the coating used, the maximum push force that can be applied is approximately 1,500 kN.

