

## Pohokura Field Development

Technip Oceania



Successful lift of the jacket by the Ensco 56, from the HLV Annegret

### PROJECT PROFILE

Client:	Technip Oceania
Location:	New Plymouth New Zealand Pohokura Field
Date:	May 2006 - Dec 2006

### PROJECT SUMMARY

Technip Oceania engaged the services of **AME** to provide engineering design, drafting and site personnel during the execution of the Pohokura field development. **AME** provided assistance in the following areas:

#### Flowline Installation

**AME** completed engineering design and detailed drafting of the deflection arch, underroller base seafastenings and developed tie-in procedures for the DSV, Rocky II.

#### Jacket and Topsides Installation

**AME** Engineers formed an integral part of the New Plymouth based engineering team that reviewed and optimised procedures for the lift and installation of the Pohokura jacket and topsides.

#### Self Drilling Piles

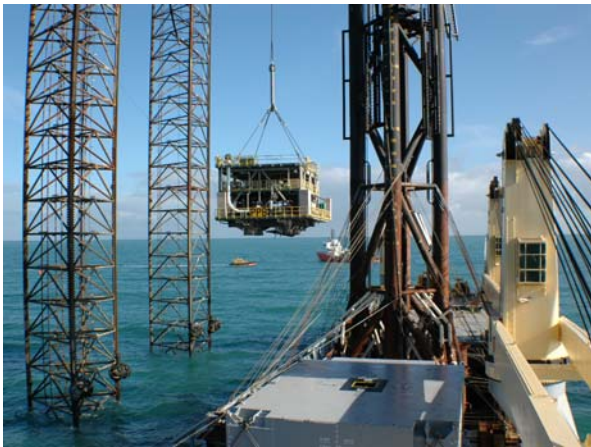
After the failure of the primary pile installation methodology, the New Plymouth engineering team (Technip, Shell, DGS and **AME**) developed a sacrificial, direct circulation, under-reaming, sealed self lubricating drill bit that rotated inside the pile leaving the pile itself stationary. **AME** provided key input into the design of bearings, seals and the lubrication system.



(a)



(b)



(c)



(d)

**Photo (a):** Umbilical reel being installed on under-roller base.

**Photo (b):** Flowline deflection arch.

**Photo (c):** Topside lift.

**Photo (d):** First stage of jacket set-down.

**Photo (e):** Pile drill bit, during onshore testing.



(e)

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