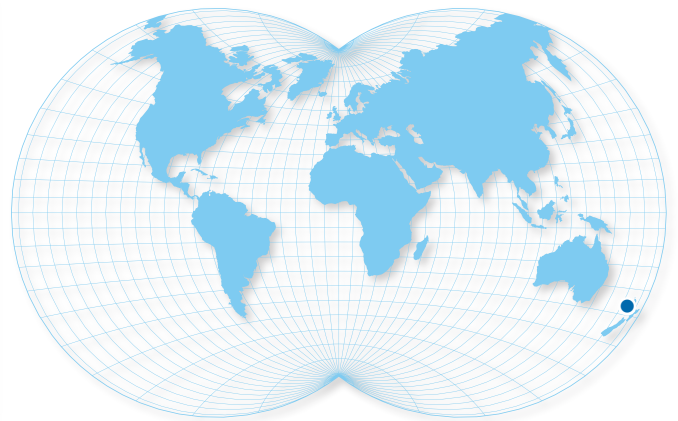


MAUI B FIELD, NEW ZEALAND:

FPSO Whakaaropai External Turret



Scope of Work

SOFEC designed and constructed an external cantilevered bow turret for a MODEC-converted 135,510 dwt FPSO in 110m water depth. The facility is classed by Lloyd's Register of Shipping.

General Description

Client Name:	Shell Todd Oil Services Ltd.
Contract Award:	January 1995
Installation Date:	August 1996
First Oil:	June 1996
Vessel Size:	135,510 dwt
Storage Capacity:	750,000 bbls
Water Depth:	110m [361ft]
Fabrication:	Turret - Singapore Vessel - Singapore Topsides - Singapore

Design Environmental Criteria (100-year storm)

Significant Wave Height:	10.7m [35.1ft]
Wind Velocity:	40.2m/s [74.5 knots]
Current:	1.1m/s [2.2 knots]

Mooring System

- 10-leg Chain-wire-chain asymmetric catenary:
- 6-in. ORQ chain
- 4.375-in. ORQ +20% top chain
- 5.5-in. 6-Strand wire rope
- 24mt and 32mt High holding power drag embedment anchors

Turret

External Cantilevered Bow

Fluid Swivel Assembly

Crude Oil:	1 x 12-in. piggable toroids (680 psi design/1,025 psi test)
Produced Gas:	1x 6-in. piggable in-line (2,550 psi design/3,850 psi test)

Riser System

- 1 x 10.5-in. Flexible riser
- 1 x 4.5-in. Flexible riser