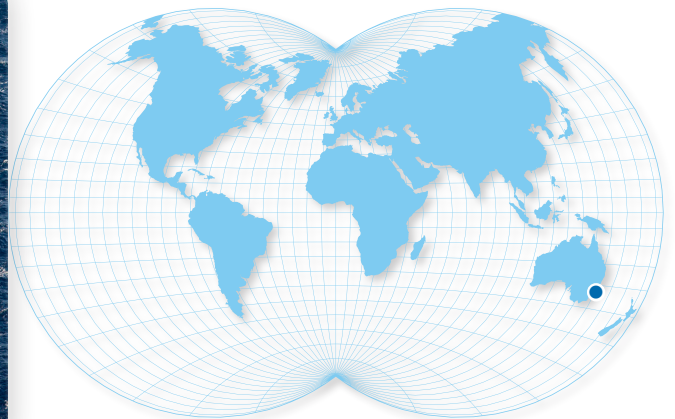


STYBARROW FIELD, AUSTRALIA:

FPSO Stybarrow Venture MV16 Internal Disconnectable Turret



Scope of Work

SOFEC designed, constructed and supplied a disconnectable internal turret mooring system to moor a 150,000 dwt MODEC-newbuild FPSO in 825m water depth.

This unique SOFEC internal disconnectable turret mooring system is ABS classed.

General Description

Client Name:	BHP Billiton Petroleum
Contract Award:	March 2006
Installation Date:	September 2007
First Oil:	November 2007
Vessel Size:	160,000 dwt
Storage Capacity:	900,000 bbls
Water Depth:	825m (2,706ft)
Supply / Fabrication:	Turret - Malaysia Vessel - Korea

Design Environmental Criteria [100-year storm]

Significant Wave Height:	6.6m (21.6ft)
Wind Velocity:	20m/s (38.8 knots)
Surface Current:	1.1m/s (2.1 knots)

Mooring System

Spider Buoy
9-leg 3x3, chain, wire rope support buoys and drag anchor

Turret

Disconnectable Internal

Fluid Swivel Assembly

Production 1:	2 X 12-in. toroids [ANSI Class 1500]
Production 2:	2 X 12 in. toroids [ANSI Class 1500]
Test Swivel:	2 X 12-in. toroid [ANSI Class 1500]

FPSO Stybarrow Venture MV16

(Continued)

Gas Lift:	1 X 4-in. toroid (ANSI Class 1500)
Gas Injection:	1 X 4-in. toroid (ANSI Class 2500)
Eskdale Production:	1 X 6-in. toroid (ANSI Class 2500)

Fluid Swivel Assembly

Water Injection:	1 X 8-in. toroid (ANSI Class 1500)
Chemical/Utility:	15 paths X 5000psi 5 paths X 10,000psi

Electrical Slip Ring Assembly:

Low Voltage Power/Signal:	98 paths
Fiber optical Rotary Joint	10 multimode

Riser System

- 2 x 10-in. Flexible pipe - Production
(Provision for 2 x 12-in. future)
- 2 x 8-in. Flexible pipe - Production
- 2 x 7-in. Flexible pipe - Production
- 1 x 6-in. Flexible pipe - Production
- 1 x 10-in. Flexible pipe - Water Injection
- 1 x 6-in. Flexible pipe - Gas Injection
- 1 x 6-in. Flexible pipe - Gas lift
- 2 x Integrated service umbilical - Subsea Control
(Provision for 1x future ISU)

Comments

When a cyclone approaches, the FPSO can easily temporarily evacuate from the field by the unique SOFEC disconnectable internal turret mooring system.