Design Profile

IE-MAPS - FPSO

Client: Brown & Root
Project: Various Proposals
Scope: Conceptual Vessel Design
Date: 2005
Manhours: 2,300
Location: North Sea

Project Description
The vessel is a ship shaped FPSO receiving reservoir gas and producing methanol within a severe environment. Capable of handling up to 3 risers with station keeping through a turret based mooring system with heading control thrusters.

Irvine Scope
Develop a front running design for the production of gas to methanol within a monohull vessel. The design was originally proposed as part of the Norne field development. The main feature is the ability to offer a revenue for the gas as an alternative to expensive gas re-injection. An added feature is comparatively far less flaring when compared to normal gas recovery making the design more environmentally acceptable.

Principal Particulars
Design Status: Advanced Concept
Application: Benign to severe environments
Length: 220.0 m
Breadth: 38.0 m
Depth: 21.0 m
Storage: 45000 m³ Methanol production
11000 m³ crude methanol production
Construction: Double hull steel structure.
Topsides: Methanol production system and utility system for production of 2250 te / day. Total payload 16500 te
Alternative Use:
Docs. Available: General arrangement drawings
Structural arrangements
Systems schematic
Outline technical specification
Approval in principle DnV