IE- C FPSO

Client: Irvine Engineering
Project: West of Shetlands Joint Industry Study
Scope: Advanced Concept
Date: 2010
Manhours: 3,700
Location: North Sea

Project Description
The design is a large concrete FPSO moored via a turret and 16 mooring line spread. The design was originally a joint industry project which identified a cost effective production solution for the West of Shetlands.

Irvine Scope
As part of a Joint Industry study this concrete FPSO solution was developed as an option for the West of Shetland development. It’s main feature is that performance and costs were comparative to a steel monohull, thus allowing an in-country fabrication approach to be adopted where fabrication facilities may not readily exist.

Principal Particulars
Design Status: Advanced Concept
Application: Moderate to extreme environments
Topsides: 125000 te
Process: 150,000 bopd
Length: 261.0 m
Breadth: 47.5 m
Depth: 30.0 m
Displacement: 100 000 te
Storage: 750000m³
Accom: 60 person
Construction: Concrete
Alternative Use: FSU
Docs. Available: Concept report
General arrangement drawings
Technical specification
Model test report