

Åsgard B & C Moorings Offshore Installation

PROJECT DETAILS:

Location:	Åsgard Field, Norwegian North Sea
Contract Value:	A\$45 Million (1998)
Contract period:	September 1998 - August 2000
Safety Statistics:	Man hours: 173,529 LTIFR: 0



CLIENT: Statoil

Scope of Work:

Statoil awarded a lump sum contract for the offshore installation of Åsgard B & C to the joint venture between SaiClo* (operating through Saipem UK Ltd) and Rockwater known as the Rockwater-Saipem Joint Venture (RSJV). The project includes the installation of moorings, a loading buoy and the tow and hook-up of a floating production platform. All engineering, procurement and project management was conducted in Stavanger, Norway.

The Åsgard development is a unitised development of three separate fields and is the largest, and one of the most complex, subsea developments ever undertaken in the world. The overall development was projected to cost Statoil and its partners in excess of A\$12 billion.

Åsgard is located some 200 kilometres offshore in the Haltenbanken region of the Norwegian Continental Shelf which is a region infamous for its extreme environment. The water depth at both Åsgard B and Åsgard C locations is approximately 330 metres.

The Åsgard B & C project included the following work:

- Installation of a 16 leg suction anchor / chain / wire mooring system at Åsgard B consisting of six suction anchors of 80 tonne each, more than 10 kilometres of 142 millimetre chain and nearly 5 kilometres of 136 millimetre sheathed spiral strand wire.
- Installation of a nine leg suction anchor / chain / wire mooring system including Midline Buoyancy Elements (MLBE) at Åsgard C consisting of nine suction anchors of 80 tonne each, 13 kilometres of 142 millimetre chain, nearly 3 kilometres of 136 millimetre sheathed spiral strand wire and nine MLBE of 35 tonne net buoyancy each.

- Transportation and connection of a Submerged Turret Loading (STL) Buoy at Åsgard C. The STL Buoy, weighing nearly 300 tonne, was transported to site onboard the offshore construction vessel MSV *Maxita* and connected to the mooring legs before being lifted overboard.

Scope of work:

- Tow and hook-up of the Åsgard B floating production unit (FPU) to the 16 mooring legs. The FPU is 112 metres x 105 metres with a displacement of 80,000 tonnes, making it one of the largest floating gas production vessels in the world. The tow and moorings hook-up required at least six large anchor handling tugs of at least 180 tonne bollard pull each.

* SaiClo was a company owned by Saipem S.p.A. and Clough

