

Troll Structures Installation

PROJECT DETAILS:

Location:	North Sea, Norwegian Sector
Contract Value:	A\$25 million (1997)
Contract period:	July 1997 - May 2000
Safety Statistics:	Man hours: 63,542 LTIFR: 0



CLIENT: Norsk Hydro

Scope of Work:

The Troll Structures installation was performed as a lump sum contract in a joint venture between SaiClo* (through Saipem UK) and Rockwater Norway. Engineering commenced in August 1997 and installation was undertaken in a number of phases over three years.

Troll is a massive development located west of Bergen in the Norwegian sector of the North Sea. The Troll Gas Province comprises Troll B (existing semi-submersible floating platform) and Troll C (semi-submersible floating platform). Both platforms gather oil and gas via subsea wells drilled through 4-slot template structures which are linked back to Troll B and C through flowlines, riser bases and risers. The installation of the templates and riser bases feeding flexible pipelines to the floating platforms form the scope of this contract.

The total scope encompassed 24 structures installed by the MSV Maxita, the quickest taking just 4.5 hours. The scope of work in 1999 involved the installation of the world's first subsea separation skid ("Pilot-plant") that was the heaviest of the structures at around 400 tonne.

MSV Maxita's 600 tonne fully heave compensated crane provided significant flexibility when installing the structures in adverse weather conditions.

All engineering, procurement and management of the project were coordinated from the joint venture's offices in Stavanger, Norway.

**SaiClo is equally owned by Saipem S.p.A. and Clough Limited. SaiClo owns and operates the offshore construction vessel MSV Maxita.*