

# Canyon Express - Umbilical Installation

## PROJECT DETAILS:

Location:	Gulf of Mexico
Contract Value:	A\$45 million (2000)
Contract period:	September 2000 - April 2002



## CLIENT: Elf Exploration Inc

### Scope of Work:

Elf Exploration awarded Saipem Inc the contract for the umbilical supply and installation for the Canyon Express flowline project. Clough, through the Sonsub Clough Partnership (SCP) was in turn subcontracted the umbilical installation.

SCP's scope of work included the loadout, transport and installation of the subsea control umbilicals and control system components. The umbilical comprised of the main control line from platform in 90 metres of water to three subsea fields in water depths from 1,900 to 2,200 metres. Additional in-field umbilicals, in-field termination structures and flying lead connectors were installed within the scope. The umbilical was an integrated steel-cored construction including control fluid cores, electrical cores and a fibre optic core.

Also included in the scope was the detailed design, supply and installation of a coiled-tubing methanol line laid parallel to the main control umbilical.

All engineering was carried out in SCP's head office in Aberdeen, United Kingdom. Procurement and project management was largely conducted in the Aberdeen office, with some local procurement and services from Houston.

The umbilicals were loaded out onto one of the world's largest portable cable-carousels, in Norway in late 2001, before sailing across the Atlantic over the Christmas period.

The 2,500 tonne capacity carousel measuring 25 metres in diameter and 6 metres high, was fully packed with product. A dedicated lay tower was designed inhouse and constructed to lay both the umbilical and the coiled-tubing lines. The tower included a straightener for unbending the rigid steel methanol line.

At commissioning, the Canyon Express Development is the world's deepest producing gas field.

[www.clough.com.au](http://www.clough.com.au)

