

**EXPRO**

WELL FLOW MANAGEMENT™

# / Expro Excellence Subsea

Expro's provide bespoke subsea system for BP's Quad 204 development, increasing features despite decreasing size



## Objectives/background

- To deliver a suitable landing string for BP's Quad 204 development in the North Sea
- This was a technically challenging scope of work due to the rig BOP configuration/orientation as well unique completion/installation methods and bespoke SPS interface – this was to suit BP's rig of convenience which was a new semi-submersible was being used that had been optimised for drilling operations and harsh environments
- A dual bore vertical xmas tree (VST) solution was selected by BP

## Expro Excellence

- Expro's long-standing relationship and track record using similar technology, allowed the Subsea team to use previous experience and lessons learnt to ensure complete compliance with the customer's expectations for the project
- Engineering work was undertaken to provide a landing string that fitted the BOP without compromising our customer's specific project requirements, nor reducing the landing string functionality

Expro added value with a dual bore VST configuration that allowed:

- Orientation helix for BOP alignment included in the system (full well control and disconnect features were not compromised)
- Deployment with monobore tubing, eliminating the need for dual bore riser
- Primary barriers allowing well flow clean-ups prior to the installation of the dual bore xmas tree
- Provision of dual bore access for manipulation of the annulus and mechanical access for intervention

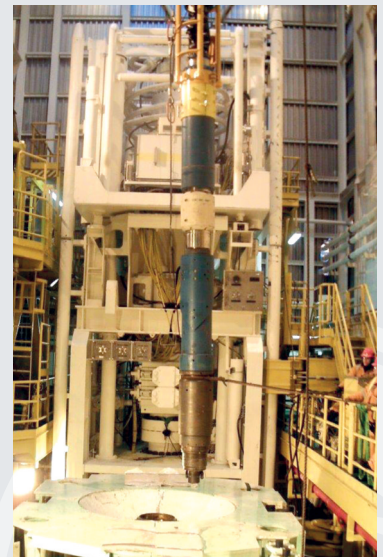
- Re-engineering work resulted in the creation of a combined integral slick joint (ISJ) and tubing hanger running tool adapter (THRTA), reducing the overall landing string assembly length so to accommodate the rig BOP dimensions and configuration
- Production and annulus access requirements, along with full helix orientation and BOP and SPS interface challenges highlighted the unique features within Expro's bespoke landing string
- Engineering analysis for FMECAs, stress analysis and multiple GRAs to account for various scenarios were undertaken

## Value to client

- Expro's modular/flexible subsea system allowed use of a rig of convenience
- Cost-efficiencies due to a reduction in equipment complexity:
  - Monobore landing String
  - Integral Slick Joint
- No requirement for dual bore riser due to Expro's technical solution, single completion string deployment, full well control inclusive within THOJ/orientation helix arrangement
- Accelerated timeline achieved with nine months, in line with rig delivery

Expro are  
outperforming  
any of the other  
subsea providers  
by a long way

**Subsea  
Supervisor,  
BP**



## Contact

For further information, please contact:  
[subsea.enquiries@exprogroup.com](mailto:subsea.enquiries@exprogroup.com)  
[www.exprogroup.com/subsea](http://www.exprogroup.com/subsea)

**Expro** Excellence[exprogroup.com](http://exprogroup.com)**Subsea**