JDC JAPAN DRILLING COMPANY

JOGMEC

EXPRO

WELL FLOW MANAGEMENT™

# / Expro Excellence Subsea

## Expro involved in world-first offshore Japanese hydrate trials

### Objectives

- In 2009, Japan Drilling Company (JDC) approached Expro, and a number of other service companies, to collaborate on the project
- Establish criteria for commercial production of natural gas from frozen methane hydrate by 2018

### Expro Excellence

- Expro's involvement began nearly 10 years ago, following early studies on the production of hydrates and played critical role in first successful marine methane hydrate production well test offshore Japan
- The final design – to enable a well test to be performed – required adapting Expro's subsea system to accommodate electrical feed-throughs for downhole pumps and heaters
- Significant engineering work required to ensure the unique system was fit-for-purpose, requiring collaboration between various stakeholders
- Expro provided the modified subsea safety system and downhole pressure gauges for the well test

### Value to client

- Japan were the first country to have produced methane from hydrate formations below the seabed as a result of the well test
- Strategically important to Japan as a means of reducing their dependency on foreign gas imports in the future

*Expro is proud of its long association with this world-first project, particularly our strong partnership with JDC and Japan Oil, Gas and Metals National Corporation (JOGMEC), which allowed us to develop a tailor-made solution specific to this ground-breaking methane hydrate test well.*

*Methane hydrate can only be generated in a high-pressure, low-temperature environment, like our subsea landing strings that are specifically designed for extreme conditions. They tackle high-debris, higher-pressure and temperature, in water depths deeper than ever before.*

**Graham Cheyne**
**Subsea Global Sales Director, Expro**

The work was driven by **Expro's global, Subsea Centre of Excellence** in Aberdeen, UK

### Contact

For further information, please visit:
**www.exprogroup.com**