

RIGLESS INTERVENTION SYSTEM

Presented by:

David Chandler – Business Manager Mechanical Handling



Mechanical Handling

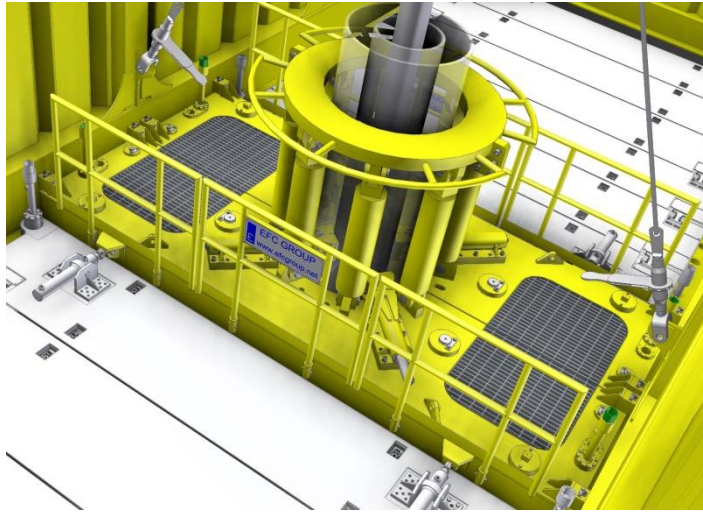
Subsea Solutions

Instrumentation & Controls

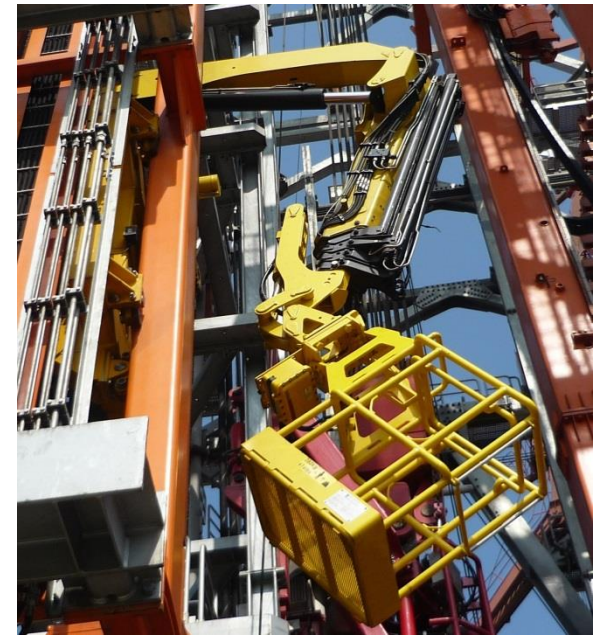
Well Control Systems

Field Support & Services

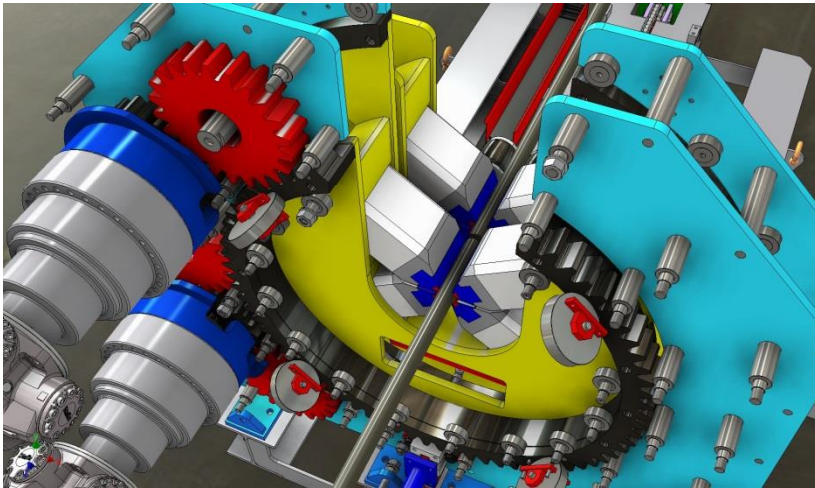
Aberdeen
Abu Dhabi
Houston
Leeds
Singapore



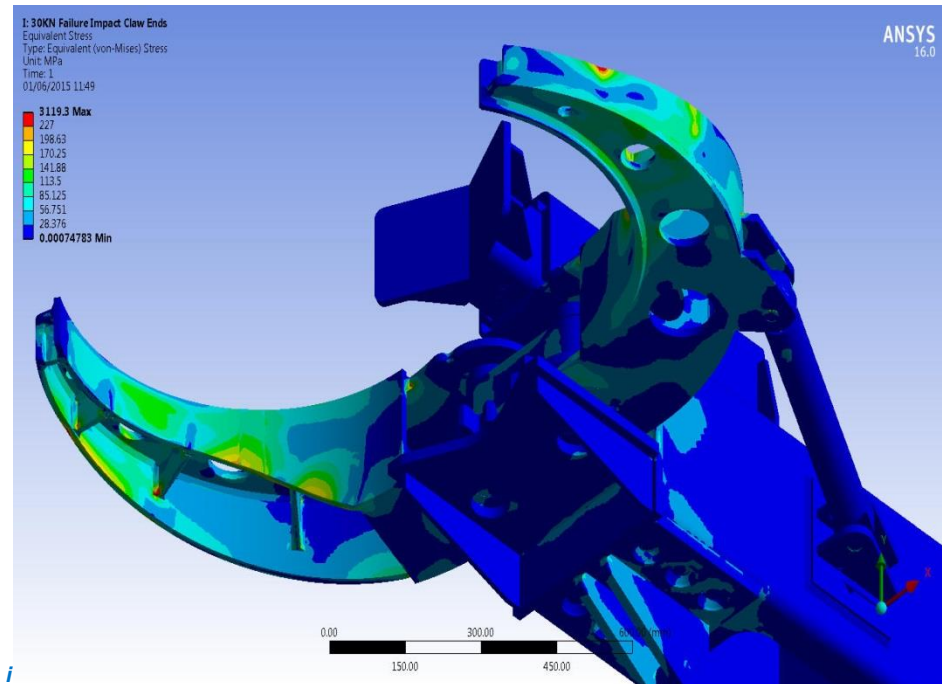
- Subsea Handling Equipment
- Vertical Tubular Handling
- Horizontal Tubular Handling
- Access Baskets
- Rigless Intervention System
- Bespoke Design Engineering Services



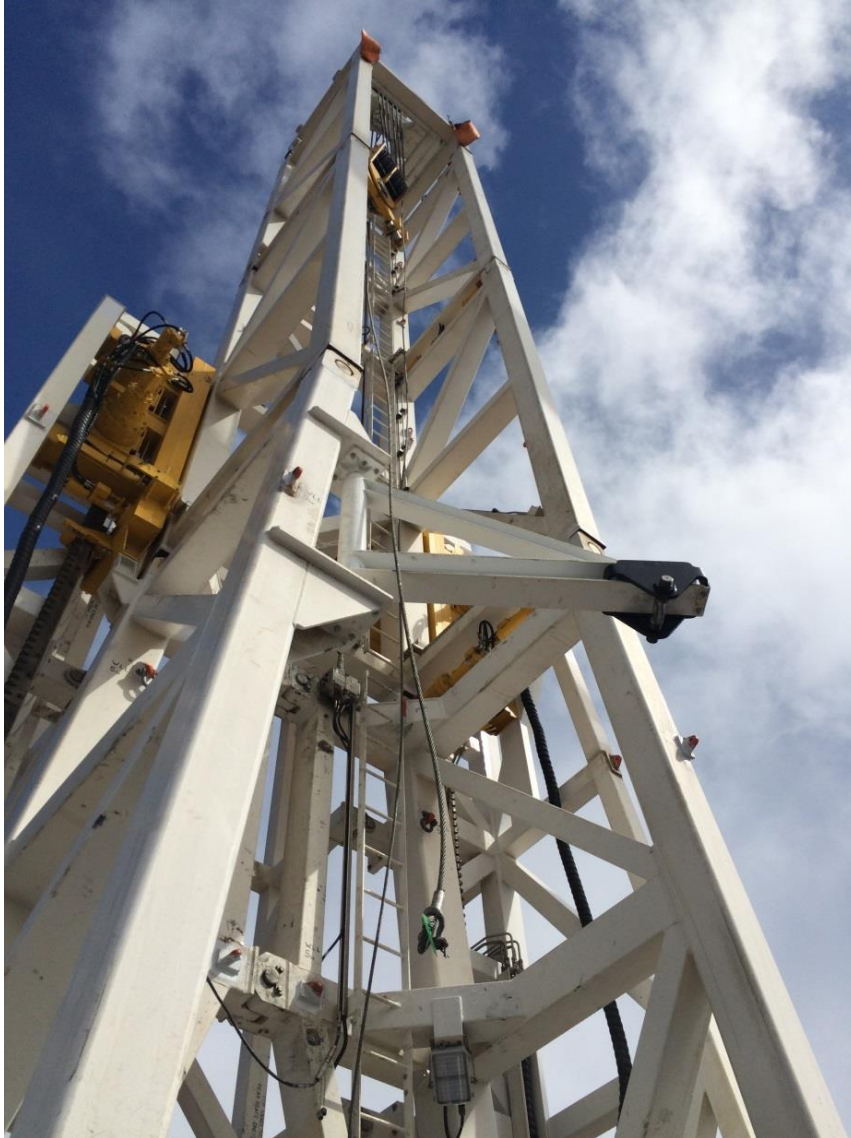
E THE EFC ADVANTAGE



- Bespoke Solution Designs
- In-house Engineering Expertise
- Hands-on Project Management
- Specialist Fabrication Partners
- Global Presence



RIGLESS INTERVENTION SYSTEM (RIS)



- Offshore & Onshore
- Decommissioning
- Well Abandonment
- Wellbore Tubular extraction
- Conductor Pre-Installation
- Setting New Casing
- Downhole Operations

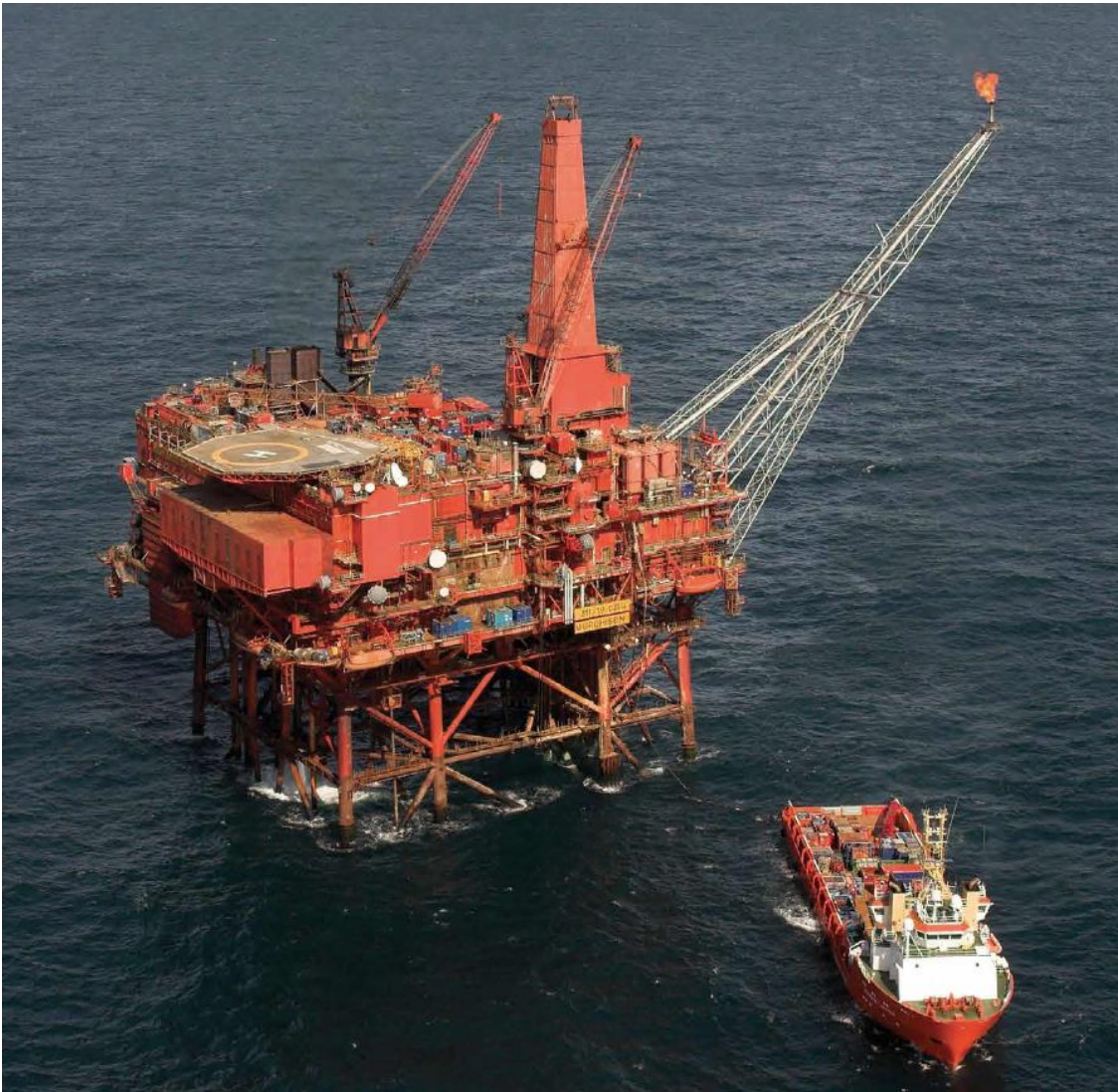


E RIS – DESIGN FEATURES



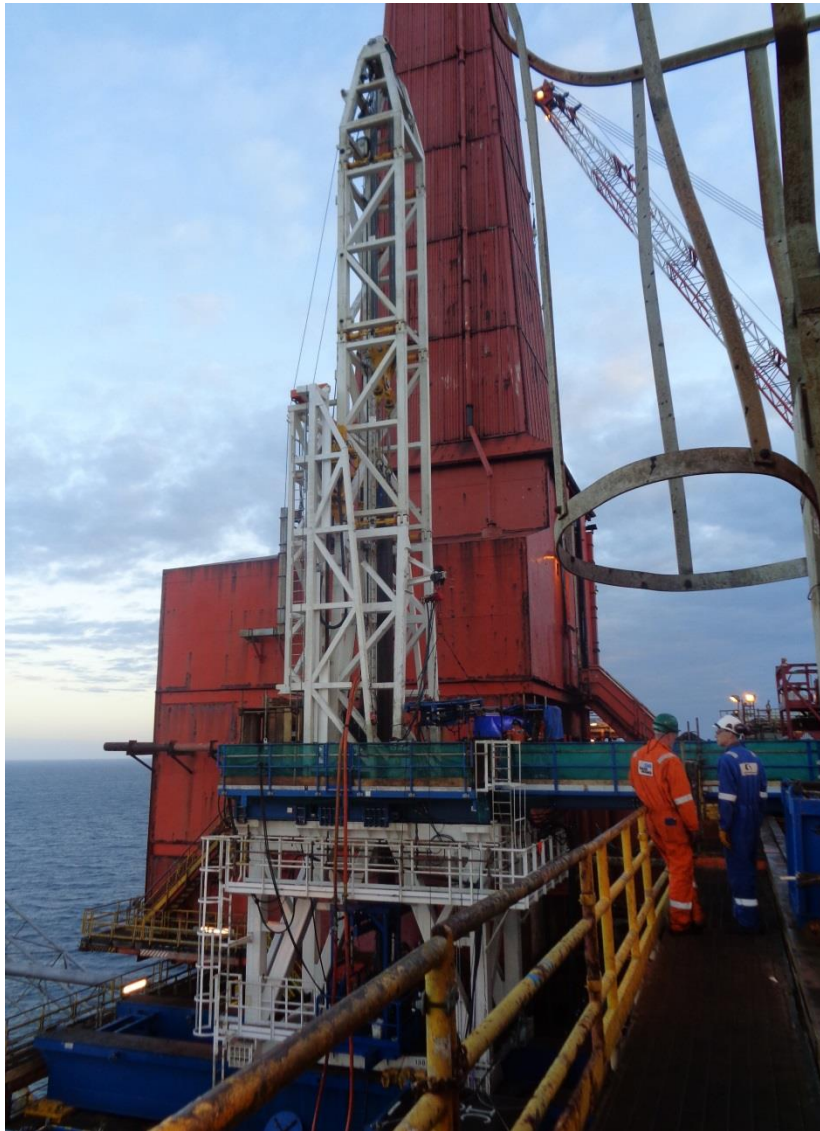
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RIS - NORTH SEA CASE STUDY

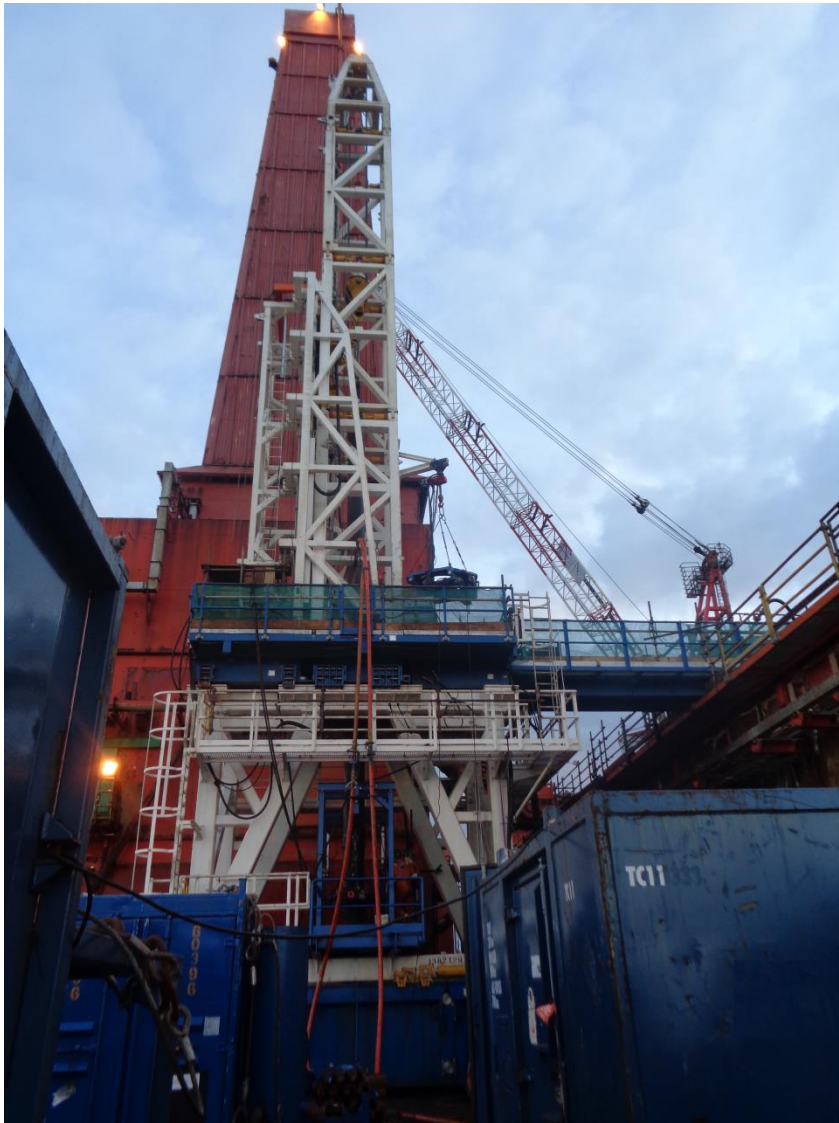


- Block 211/19, 193km North East of the Shetland Islands
- Water depth of 156m (512ft)
- Installed in 1979
- First Production in Sept 1980
- 393 Million Barrels of Oil over 34 Year Production Life
- Production Ceased Feb 2014

- Decom Project Started in 2010
- Completion due by 2020
- 33 Wells to Decommission
- Service Company Contract for Contractor Removal



- Modular Design Allows Easy Customisation
- North Sea Certified
- EFC led survey, design brief to meeting operational needs
- Project Specific Modules
 - Elevated Sub Structure
 - Pipe Laydown Bed
 - Upending System
 - Extended Main Beams



- Modular Design Allows Easy Customisation
- Additional Functionality
 - Top Drive
 - Drawworks
 - BOP Structure & Skid
 - Enclosed Control Cabin
 - Pipe Handling System



- Well P&A costs can account for up to **55%** of a project's budget
- Only **4%** of platform P&A projects plan to use Rigless Technology
- Jack-up rig rates subject to change

Final decom project costs may be substantially higher than planned

Recent Major North Sea Project:

- Planned Cost of **£61.3m**
- Actual Cost of **£154.8m**

The background is a blue-tinted photograph of industrial machinery, including cranes and lifting platforms, with a complex network of metal beams and cables.

**THANK YOU FOR
YOUR TIME**

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