

CASE STUDY

HYDRAULIC ENGINEERING SERVICES

DESIGN & MANUFACTURE: DOWNHOLE UMBILICAL REELER



Brimmond group were approached by a multinational oil and gas service company to design and manufacture a bespoke downhole umbilical reeler for a project located in the Caspian Sea region. The details and specifications of the umbilical reeler and other equipment supplied were:

- The ability to fit a multitude of drum sizes, Brimmond created a concept design for a multiple drum-size reeler.
- Removable level wind system to allow easy and safe change over of drums
- Unit featured several safety functions, such as interlocks fitted to the access doors to automatically stop the unit if the doors are opened during operation
- Suitable for working in ATEX category 3 (zone 2) environments
- Umbilical reeler designed and built to DNV 2.7-3 standard
- Umbilical reeler suitable to accommodate maximum line pull of 2000 kg
- Electrical slipring (ATEX certified)

- Designed to provide maximum required capacity at minimum air pressure (80psi)
- Includes self-aligning level wind which allows for safe retrieval of umbilical
- Hydraulic slipring with maximum working pressure of 6000psi
- Also provided was a specifically designed and manufactured flatpack umbilical sheave built in accordance with DNV 2.22 & ISO 13628-7 and certified for use in ATEX category 2 (zone 1)
- Umbilical sheave suitable to accommodate maximum line pull of 2400 kg

"Brimmond assisted us from the initial design phase, and provided a manufacturing deliverability schedule which was fulfilled very efficiently. The reeler was a fundamental element to our project so regular contact was conducted with the support of a dedicated Brimmond PM to ensure smooth process. Thanks to everyone at Brimmond for the full support of the project from start to finish"

Lee Anderson, Project Manager, Secure Drilling Services



www.brimmond-group.com info@brimmond-group.com Tel: +44 (0) 1467 633 805



www.rigrun.com info@rigrun.com Tel: +44 (0) 1467 633 691



www.prefferedmarine.com info@prefferedmarine.com Tel: +44 (0) 1467 632 975