COMPLETE SUBSEA RISER PACKAGE

18 3/4" 7,000psi Riser package readied in record time to the Caribbean

The Challenge

Claxton Engineering was engaged by BP to deliver an 18¾" 7,000psi subsea riser package on an accelerated schedule for their Cypre and Ginger drilling campaign. With rig downtime carrying significant operational and financial implications, speed of delivery was critical.

The scope included the provision of a complete subsea riser package comprising primary and backup riser joints, H4 connectors, a hydraulic control system, handling tools, and associated tensioning and running equipment. In parallel, critical components including connector guide funnels, C-plates, strakes, and a backup stress joint required fast-track engineering and manufacture.

The compressed schedule presented a significant logistics challenge, requiring more than 200 tonnes of equipment to be mobilised by air freight to Trinidad. To meet the client's programme, the mobilisation was executed across four dedicated cargo flights, including a heavy-lift Antonov AN-124 and three jumbo jet aircraft. Coordinating the preparation, transportation and prioritised delivery of this equipment within the four-week timeframe was critical to minimising potential rig downtime and maintaining the drilling schedule.

Riser System being loaded onto Antonov AN-124



The Solution

Detailed riser analysis identified the need for a forged stress joint to mitigate fatigue and enhance operational reliability. This component was rapidly designed and manufactured, with support from Claxton sister company Probe Manufacturing & Fabrication, helping to meet the demanding delivery schedule.

To minimise operational delays, both primary and backup riser systems were inspected, serviced, and prepared in parallel, ensuring equipment availability throughout the campaign. Loadouts were strategically prioritised, enabling critical equipment to arrive first and allowing the client to resume operations as quickly as possible.

Success relied on a coordinated effort across engineering, workshop, warehouse, logistics, and supply chain teams. Dedicated project resources and extended working hours were implemented to meet the compressed timeline, while a specialist 12-person offshore team was mobilised on a rotational basis to provide continuous operational support throughout the campaign.

Riser System during fabrication at AF Probe



Onshore equipment inspection pre offshore loadout



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The Result

A six-person crew was deployed to Trinidad ahead of operations to inspect and prepare equipment upon arrival, ensuring readiness for the first deployment.

Dedicated in-country support services were established, enabling all maintenance and servicing activities to be completed locally and significantly reducing turnaround times between wells. Continuous offshore monitoring and proactive equipment management further contributed to reliable and efficient operations.

Key project achievements included:

- Strong interface management that minimised operational downtime.
- Efficient mobilisation aligned with the client's demanding schedule.
- Successful support of a drilling campaign spanning more than two years.
- Twenty riser deployments across 12 wells, with 4,423 metres of riser run and recovered.
- Zero safety incidents or injuries across 2,527 workshop hours and 824 offshore operational days.
- All maintenance completed in-country, minimising non-productive time and improving operational efficiency.
- Zero non-productive time (NPT) attributed to Claxton equipment or services.
- 285 tonnes of equipment successfully mobilised to support the campaign.

The successful delivery of the 7,000psi subsea riser package demonstrated Claxton Engineering's ability to execute technically complex offshore projects under demanding schedule constraints.

Through rapid engineering, effective collaboration, robust logistics planning, and dedicated in-country support, the team enabled uninterrupted drilling operations while continuously improving performance. The project concluded with an exemplary safety record and zero client NPT, reinforcing Claxton's reputation for delivering dependable, high-value subsea solutions.

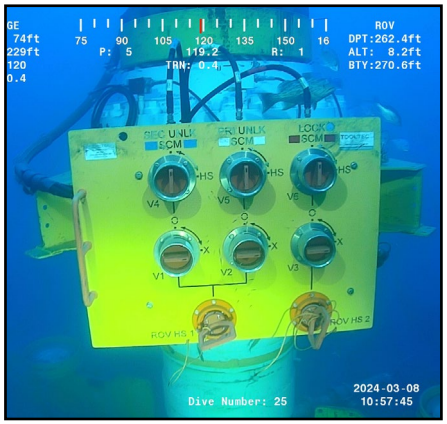
Inspection & Testing at in-country support base



Riser in on rigfloor ready for next connection



H4 Wellhead Connector Subsea



The Project in Numbers

18 3/4" 7,000psi Riser System

285T of Equipment Mobilised to Caribbean

824 Offshore Operation Days

12 Wells & 4,423m of Riser Run & Recovered