

WEST AFRICA - COMPLETION RISER



Rough machined forging ready for final production.

SCOPE OF SUPPLY

Subsea Riser Products Ltd provided client with critical forged joint products to be used on the 2,200psi completion riser system deployed in 800m water depth of the coast of Nigeria.

The complete scope included:

2 off Lower Stress Joints

2 off Case Wear Joint Assemblies (including adapter joints, wear casings and ancillary items)

OPERATOR

Total

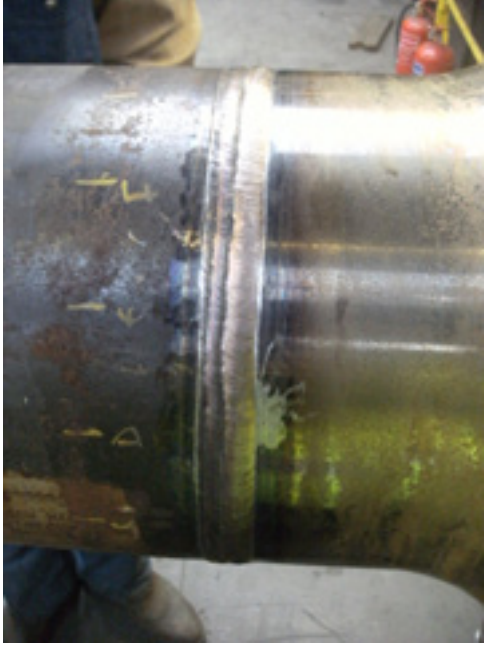
SCHEDULE

Award: 2nd Q'09

Fabrication: 1st Q'09 - 3rd Q'09

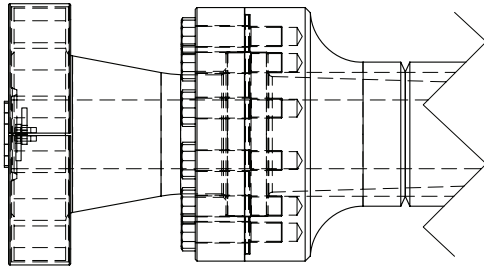
Testing: 4th Q'09

Delivery: 1th Q'10



ABOVE: Weld between flange and casing

BELOW: Technical detail of adapter joint



Subsea Riser Products Ltd was selected through competitive tender to supply the critical forged components required for a 5" completion riser system offshore Nigeria. These components included 2off Lower Stress Joints (LSJ) with VAM LDR threaded connections on the upper coupling, manufactured from ASTM A182 Grade F22 material. The VAM LDR thread is a relatively new design and SRP was required to select, register and approve a UK machinist to conduct the thread cutting. The lower coupling was a clamp hub flange with a custom sealing arrangement as specified by the client.

The Case Wear Joint (CWJ) assemblies included a forged CWJ adaptor (similar to a taper stress joint) that had an API flange with non-standard gasket on the upper coupling, and a VAM DPR HP thread on the lower coupling. The CWJ adaptor also provides support to an outer wear casing designed to protect the riser string from wear and fatigue damage throughout the design life. The wear casing consisted of 10-³/₄" API 5L, PSL2 X52 line pipe that had a welded flange on the upper connection to interface with the CWJ adaptor. The CWJ adaptor was forged from ASTM A182 Grade F22 material, while the wear casing flange, and clamp plates used to secure the wear casing to the CWJ adaptor were forged from ASTM A694 Grade F60 material. The riser string was also fitted with 4 off high density polyethylene spacers to ensure protection of the riser string.

SRP was selected for its commercial competitiveness and technical expertise in providing long forgings and component integration services in a very tight timescale. Through diligent project management we were able to provide the forgings, machining, testing, as well as the supply of ancillary components, within 9 months.

It was very clear from the outset of this project that a tight delivery schedule was of the essence. Throughout the project SRP engineers constantly strived to streamline the supply of these components to achieve the shortest delivery schedule possible, this was aided by the global riser analysis and component design being conducted by 2H Offshore, our sister company within the Acteon Group.

SRP's drive to reduce the schedule lead to many complex technical discussions with the client and operator to achieve maximum compliance to the stringent design requirements specified. A key part of this was regular witnessing that SRP facilitated throughout all stages of the project. Every stage of this project was made easier through close communication and relationships between the client, operator and design team.



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