Mako Offshore
Intelligence Centralised

Mako Dorsal
Subsea Centralisers

Conductors are multi-string conduits for fluid or gas to and from the well which provide an essential structural component of fixed and jack up drilling installations. In operation the conductor is exposed to cyclical and impact loading due to current and wave action upon it. Therefore, the lifespan of conductors is determined largely by their ability to resist the cyclical and impact loading applied to them by the environmental conditions in which they operate.

Mako's Dorsal is an elastomeric centraliser system either cast in situ or precast and installed into the conductor guideframe. The Dorsal material acts in a manner similar to a suspension bushing in a car in that it absorbs external forces to minimise their effects on the overall system.

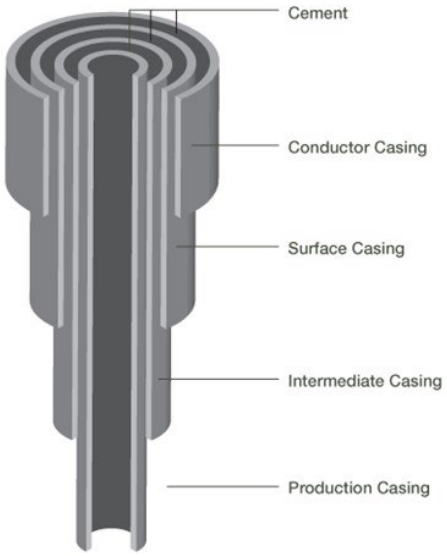


Figure 1: Typical Well Casing Set Up

Advantages

Reduced Cost of Asset Ownership
- Designed to be reusable
- Designed to be installed or removed without the use of any special tooling
- Designed for easy removal during decom
- Extend of Conductor, Guideframe and Xmas Tree small bore pipework lifespan
- Elimination of centraliser inspection and maintenance
- Life of field centraliser system

Improved Asset Integrity Assurance
- Prevention of coating breakdown
- Reduction in dynamic loading
- Reduction in vibration migration to structure and ancillaries
- Elimination of point loads through full guideframe utilisation for support

Customised Design
- Configurable for each application
- Scalable to any conductor and guide diameter
- Customisable material properties

Efficient Installation
- Remote topside installation
- Diver installable
- ROV installable
- Un-installable at any time by any of the above methods
- Adjustable on site to account for variations in field conditions versus design drawings

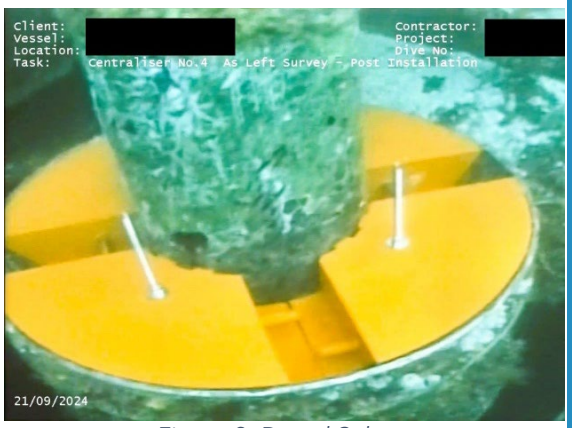


Figure 2: Dorsal Subsea

Patent Application: 1915215.6