

# Completion / Workover System Safety Bails

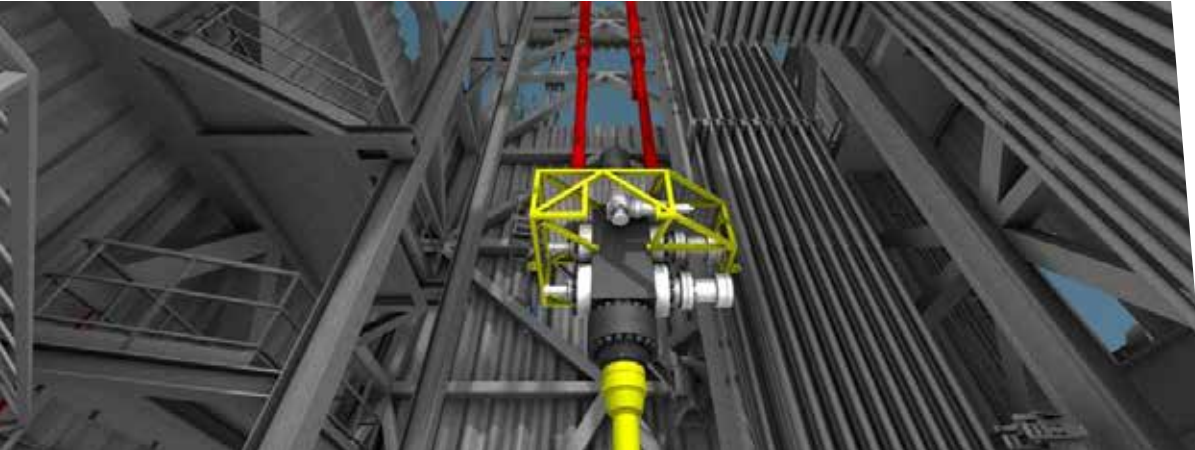
Innovation. Excellence. Delivery.



**The safe operation of floating drilling rigs at all times is a well known industry challenge. The ScanTech Offshore Safety Bails provide:**

- Improved drill ship / semi-sub drilling operational safety during completion, well testing, well intervention and workover (C/WOR) operations
- Protection against accidental C/WOR overload conditions through compensator lock up
- Ensures compliance with **ISO 13628/7** through a predetermined load and known weak point in the string
- Non-separating when activated
- Minimised down-time with rapid reset function
- Direct replacement for existing components
- Top-side location for maximum visibility & rapid reconnection
- Global product and through-life support coverage
- Proven in North Sea applications since 2005





The safe operation of floating drilling rigs at all times is a well-known industry challenge; during completion, well testing, well intervention and workover (C/WOR) operations.

ScanTech, part of James Fisher and Sons plc, has designed and developed the Safety Bails, an innovative controllable failure system that improves the safety of semi submersibles and drill ships during completion and workover (C/WOR) operations to comply with **ISO 13628/7** standards.

As the designed in weakest link in the system, it provides a controlled failure mechanism at a predetermined load reducing the risk of damage to expensive equipment, increasing safety of the drilling installation's operatives and minimizing the risk of environmental contamination.

The development of the Safety Bails demonstrates ScanTech's continued commitment to the offshore oil and gas industry worldwide, by enhancing safe operations and reducing risk to personnel, operational and environmental concerns.

#### **ISO 13628/7 compliance**

The ISO standard governing design and operation of subsea systems in relation to completion / work over riser states:

**"Measures should be taken to avoid damage to the C/WOR in case of overloading due to accidental load effects."**

ScanTech Offshore has developed a proprietary solution that enables rig operators and oil majors to comply with this standard. The Safety Bails have been designed to fail in a highly controlled manner at a predetermined load during compensator lock-up caused by mechanical failure, maintenance issues or human error.

Compensator lock ups on both passive and active systems are recognized within the industry and several recorded cases are illustrated in **SPE 59216**. Each of these failed in tension, the Safety Bails will ensure that this does not occur.

#### **Proven capability:**

- Bail arms – designed with a shear pin to form a known weak link if a lock up occurs
- Reduces risk of potential damage to life, the environment and expensive equipment
- Designed top side for ease of visibility and resetting
- Does not separate if shear pin is broken
- Can be easily reset if activated
- Used extensively in the North Sea

#### **Contact us:**

For further details on the Safety Bails, contact our specialist consultant:

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