

TRS, Vero[®] System Rig Integration Automates Operations, Enhances Safety, Eliminates Red Zone Exposure, Reduces POB in Deepwater Australia



Rather than rely on human judgement for connection evaluation, the Vero system applies artificial intelligence to eliminate errors or oversights that can lead to safety incidents and costly remediation.

Objectives

- Improve efficiency, safety, and reliability via automation.
- Reduce the volume of equipment required for tubular running services operations.
- Decrease the number of personnel onboard.

Our Approach

- Weatherford experts extensively collaborated with both the operator and the rig contractor to review and implement the integration process of the Vero automated connection integrity system.
- Used for applications on large offshore rigs, the Vero system enhances operational efficiency by automatically making up or breaking out and autonomously evaluating the connection makeup data. Automated makeup enables precise control of the process, independent from any operator-specific influences or other human factors. Autonomous evaluation eliminates subjective graphical interpretations.
- The system offers simple and hands-free operation, removing personnel from the rig-floor red zone. With just one touch, the system autonomously controls the process of both connection makeup and evaluation based on the pipe and thread OEM criteria.

LOCATION

Australia

WELL TYPE

Deepwater development well

CASING SIZES

22 in. to 2-3/8 in.

PRODUCTS/SERVICES

- Vero automated connection integrity system



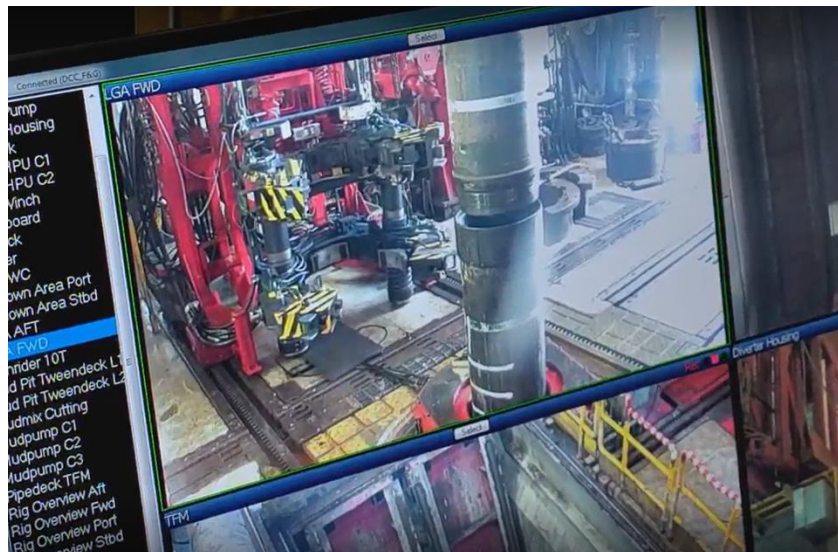
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Our Approach (continued)

- The Weatherford engineering team developed custom programming to enable seamless communication between the Vero system and the rig's control system.
- Weatherford experts were mobilized to support the installation and commissioning process.

Value to Customer

- The implementation of the Vero system and the integrated automation strategy resulted in significant benefits.
- **Reduced POB**—By automating key TRS functions, the crew size was reduced from 4 to 3, directly addressing rig POB limitations.
- **Fully automated TRS operations**—The Vero system enabled a high level of automation, minimizing manual intervention and enhancing consistency.
- **Improved efficiency and reliability**—Automation led to faster cycle times and reduced human error, improving both operational speed and reliability.
- **Smaller equipment footprint**—The volume of TRS equipment required at the wellsite was significantly reduced, freeing up valuable space and simplifying logistics.
- **Enhanced well integrity**—Precision and consistency in tubular handling contributed to improved well integrity, supporting long-term production goals.



Hands-free automation via remote control means less equipment on the rig floor and zero personnel in the red zone.

