

# Vero™ Mechanized System, PowerScope® Tong-Positioning System Combine to Enhance Safety, Ensure Well Integrity, Improve Operational Efficiency

## Objectives

- Enhance safety: Reduce personnel exposure in the red zone, minimizing risks associated with manual operations.
- Optimize workforce efficiency: Achieve personnel on board (POB) reduction by automating critical tasks, decreasing reliance on manual intervention.
- Eliminate human factors: Remove human decision-making from well integrity processes to ensure consistency, accuracy, and reliability.
- Improve operational efficiency: Reduce connection time and mitigate the risk of damaged connections, leading to smoother and more cost-effective operations.

## Our Approach

- Weatherford experts conducted in-depth discussions with the operator to understand operational goals, safety concerns, and efficiency requirements.
- The combined teams analyzed historical well performance data to identify recurring issues related to personnel exposure, connection time, and well integrity risks.
- Based on data insights, the team selected the Vero mechanized system to automate connections, ensuring consistent and precise execution. A key feature of the system is the integrated, real-time monitoring tools that validate connection integrity and reduce human decision-making errors.
- This solution addressed concerns related to transitioning from manual to automated processes, ensuring seamless integration with existing infrastructure.
- Weatherford provided technical training and support to operators, facilitating adoption of mechanized workflows.
- Field personnel implemented the Vero system under controlled conditions, continuously monitoring improvements in connection efficiency and personnel safety.
- The operation achieved significant POB reduction and improved connection consistency, minimizing damaged connections.



The Vero mechanized system on the PowerScope positioning device operated remotely from drillers cabin.

### LOCATION

Qatar

### WELL TYPE

Gas

### HOLE SIZE AND ANGLE

8-1/2 in., horizontal

### CASING SIZE AND TYPE

- Tenaris Wedge 563 Sanicro28 7 in., 29ppf
- VAM Top SM2535P110 7 in., 26ppf

### DEPTH

21,000 ft (6,400 m)

### PRODUCTS/SERVICES

- Vero mechanized system
- PowerScope tong-positioning system



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### Value to Customer

- Zero personnel in red zone: Compared to the traditional setup with five personnel, automation eliminated all human presence in the red zone while operating the system remotely from the driller's cabin.
- POB reduction: Optimized operations decreased POB from six to four, improving workforce efficiency.
- Connection integrity at 100%: Automated evaluation ensured every connection met tubular OEM quality standards with absolute precision.
- A 60% reduction in damaged connections: Automated makeup technology minimized errors, significantly enhancing reliability.
- Reduced connection time by 15%: Full process automation streamlined operations, cutting down time and increasing efficiency.



The Vero mechanized system automates the makeup and evaluation, or breakout, of premium pipe connections on large offshore rigs and drillships.

