

# REAL RESULTS

### DwC<sup>™</sup> Drilling-with-Casing Spear System Significantly Improves **Running Speeds in Development** Well Offshore China



### **Objectives**

- Improve casing-running efficiency and enhance safety during casing running on two offshore development wells by reviewing and implementing lessons learned from a previous well that was drilled using conventional methods.
- Mitigate working-height difficulties for tubular running services crew.
- Improve safety clamp installation and removal time.

### **Results**

- A modified Weatherford DwC (drilling-with-casing) spear was deployed in the first well, eliminating the need to use a fill-up tool, spider and side-door elevators.
- Running speed was improved from 21.3 min/joint to 16.1 min/joint while operating in inclement weather conditions.
- The need to change out drilling bails was eliminated, and the crew was able to work from the drill floor.
- In the second well, good weather conditions and the addition of a hydraulic safety clamp improved casing tripping time to an impressive 8.4 min/joint.

## Value to Client

- Using Weatherford's DwC system provided the operator with the casing-running efficiency they needed, improving running speeds from 21.3 min/joint to 16.1 min/joint in the first well, and 8.4 min/joint in the second well.
- Both operations were carried out without any safety issues.

A Weatherford drilling-withcasing spear was used in conjunction with DwC technology to significantly improve casing running times while enhancing crew safety on this offshore rig.



Type of Well Offshore development

**Run Length** 1,982 ft (604 m)

**Casing Size** 13-3/8 in., 68 lb/ft

#### **Products/Services**

- · DwC drilling with casing system
- · Modified casing spear
- Tubular running services
- Hydraulic safety clamp
- Hydraulic power tong



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