

Case Study

ICEFIELD ENERGY

Meridian-GWD: Enabling Operators to Drill Safely in the Tightest Anti-Collision Scenarios

Summary

Faced with a critically close offset well and heavy magnetic interference in the 17.5" hole, the drilling team turned to Gyro While Drilling (GWD) technology. This provided 28 precise gyro surveys spread across three drilling days, ensuring dependable positioning despite the magnetic challenges. The approach kept operations safely on track until the standard magnetic MWD tool regained full accuracy around 600 m, producing important time reductions and allowing the well to be drilled without safety compromises..

Objective

Drill ahead and maintain directional control in the 17.5" interval, commencing beneath the conductor shoe and extending to clearance from magnetic interference caused by the adjacent conductor, through the combined use of a positive displacement motor (PDM), Gyro While Drilling (GWD), and mud-pulse MWD.

Technology Used

Meridian-GWD integrated with ToolTronix MWD.

Results & Value Created

Meridian-GWD empowered safe, collision-avoidant drilling of the new well in a challenging anti-collision zone. This delivered major efficiency gains over traditional wireline gyro single shots—translating to noteworthy time savings—while ensuring quicker completion, heightened operational safety, and greatly diminished collision-related hazards.

Date

- January 2026

Location

- Jack up drilling rig
- Mediterranean Sea
- Egypt - Middle East

Well Details

- Depth: Surface to 2,000ft
- New well

Partners

- Tooltronix JAE
- Well Services Co

