

## CASE HISTORY

# gyroMWD MODULE AVOIDS COLLISION AND ELIMINATES NINE WIRELINE RUNS

### APPLICATION

Collision Avoidance and Motor Orientation

### TECHNOLOGY

gyroMWD Module

### LOCATION

Australia (Otway Basin)

### CUSTOMER CHALLENGE

During the planning phase to drill the top hole section of a wellbore, magnetic interference was expected through a substantial portion (74 m to 300 m) from an existing offset wellbore with less than 10 m of separation. A crucial motor orientation was needed for kick-off to steer away from the offset well. The customer also required surveys that would allow them to avoid collision and ensure optimal positioning of the motor while steering in the highly magnetic environment.

### SCIENTIFIC SOLUTION

Scientific Drilling utilized their gyroMWD Module, which seamlessly integrated with a major service provider's MWD system, allowing gyroscopic surveys to be taken in areas of magnetic interference. The surveys were taken over connections, with eight delivered in total. The gyroMWD Module was also used to conduct a motor orientation at 120 m, followed by continuous gyro tool face to accurately steer the wellbore to 200 m. At this point, highside tool face from the MWD system was used until TD.

### CUSTOMER VALUE

All surveys passed their initial QA/QC checks and the gyroMWD Module integrated seamlessly with the major service provider's drilling systems and successfully performed a complex motor orientation.

The gyroMWD Module eliminated more than nine individual wireline runs, as well as the need for an e-line unit and additional personnel on-site. This ultimately saved the customer an estimated six hours of rig time and 33% of financial savings per well.

