CASE STUDY

FIRST SOLID STATE QUEST GWD DEPLOYMENT IN ASIA PACIFIC TO PROVIDE HIGH-ACCURACY WELLBORE SURVEYING IN HIGH-INCLINATION APPLICATION

TECHNOLOGY

- Quest™ gyro-while-drilling (GWD) system
- SPEAR™ solid-state sensors

APPLICATION

- High-accuracy wellbore surveying
- Wellbore placement
- Extended-reach drilling

LOCATION

- Malaysia

INDUSTRY CHALLENGE + OBJECTIVE

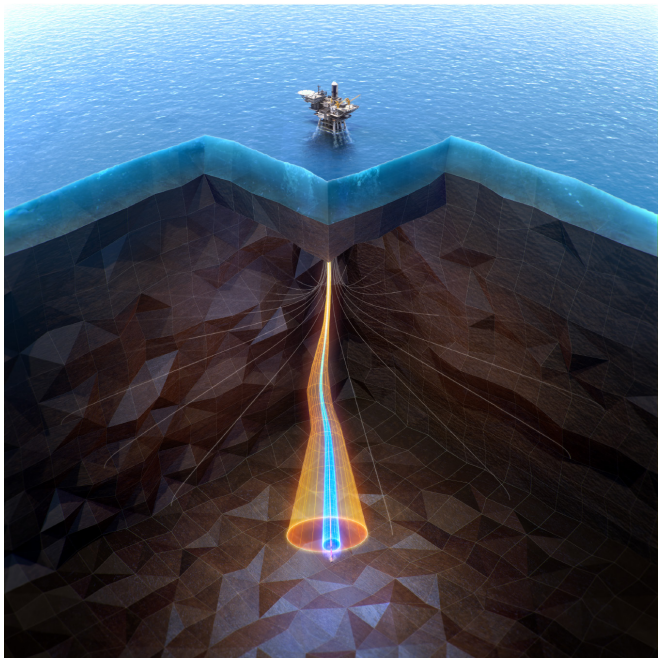
An operator in the Malaysia had a requirement to drill a well where accurate placement of the reservoir section were essential to the success of the project. The operator also requested for a high accuracy GWD system that was able to drill the section for an extended period of time. We recommended running our solid-state Quest GWD system along with (OMM) Outrun Memory Multishot features to address the operator's challenges.

TECHNOLOGY + SERVICE SOLUTION

- We suggested implementing our Quest GWD system, powered by SPEAR solid-state sensors in the 12-¼" hole section.
- The OMM - Outrun Memory Multishot survey features were also activated in the 12-¼" section to allow for additional data collection on EOU reduction.
- The solid-state SPEAR sensors measure the earth's rotational rate precisely and accurately.
- The sensors are able to handle harsher downhole environments when compared to conventional GWD systems.
- The reduced power consumption allows the tool to drill long sections without the need for frequent tool change trip.

RESULTS + VALUE DELIVERED

- The Quest GWD system was successfully deployed with the third-party service company's MWD system.
- The Quest GWD extended battery life allowed for 13 days of continuous operations down hole surveying in hole with no battery trip required.
- A total of 3,367 meters were drilled with the tool.
- The Quest tools efficiency allowed for faster survey collection, allowing all survey collections to be achieved during connections.
- This was Gyrodata's first and successful deployment of our Quest GWD technology on a critical well in Asia Pacific.



40 gyrodata YEARS OF INNOVATION