

TEMS International is an independent provider of environmental management and compliance services to the global oil and gas industry. Our services are focused on managing and optimising drilling performance and drilling waste in real time, while ensuring an asset remains in environmental compliance. Ultimately, our experienced team aims to reduce drilling costs and ensure legislative compliance targets are met or exceeded.

- Location: Malaysia
- > Project date: April September 2021
- > Drilling duration: 137 days
- ➤ Total footage drilled: **5,700ft**
- ➤ Total estimated saving: \$22,803
- Estimated SBM savings: 216 barrels

OUTLINE

A Malaysian oil and gas company focused on gas production in the waters off the Asian country engaged the services of TEMS International to support drilling operations during 2021. Over 5,500ft of drilling was overseen by TEMS International engineers while onboard the drill ship during the 137-day project.

TEMS International provided its drilling performance management and optimisation, continuous environmental compliance legislation and carbon footprint reduction services during the project.

Prior to the project commencing, TEMS International engineers conducted an extensive audit to identify potential issues regarding the containment of drilling fluids, diesel fuel and other hydrocarbons used in the daily operations onboard the rig. These observations were either resolved prior to and during drilling operations, depending on their seriousness, or recommendations made to implement improvements.

The overall aims of the project were to:

- Adhere to governmental discharge policies
- Optimise solids control equipment to deliver maximum solids removal with minimum liquid retention
- Reduce synthetic based mud surface consumption
- Reduce shaker screen consumption
- Minimise environmental impact

SERVICES DELIVERED

Drilling performance management and optimisation

A process approach to drilling performance management that adds value to the entire drilling process. The service aims to ensure more effective and efficient drilling – reducing drilling days – through optimised fluid management and effective solids control management with the overriding proviso of safety and environmental protection.

Continuous environmental compliance legislation

Leading guidance on environmental compliance, prior to and for the duration of a drilling campaign. The comprehensive technical services and environmental consultancy enable well planners to ensure permits are in place, and that drilling operations keep pace with, or exceed, the evolving compliance regulations of drilling locations.

Carbon footprint reduction

Monitor and report the ways in which greenhouse gas emissions can be reduced by optimising drilling performance. The service monitors the emissions of an installation and highlights the cumulative environmental benefits of using less drilling fluid, which includes transportation, shipping and treatment.

216	Fewer barrels of mud used
\$22,800	Saved on mud costs
5.23%	Average OOWC rate achieved
No dryers	Used on board the rig reducing carbon footprint
Carbon footprint	Of drilling asset was reduced