

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: **Gulf of Mexico**
- Project date: **May 2019**
- Drilling duration: **20 days**
- Total footage drilled: **3,883ft**
- Total estimated saving: **\$58,089**
- Estimated SBM savings: **310 barrels**

OUTLINE

TEMS International was approached by an independent exploration and production company to support its drilling operations in the Gulf of Mexico. The drilling project commenced in May 2019 and lasted for 20 days. During the project, around 3,800ft of drilling was overseen by TEMS International engineers.

TEMS International provided its drilling performance management and optimisation, and continuous environmental compliance legislation 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:

- Achieve governmental oil on wet cuttings (OOWC) limitations in line with EPA reporting
- 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.

310	Fewer barrels of mud used
\$58,089	Saved on mud costs
4.75%	Average ROC rate achieved
Spill drills	Introduced to train rig personnel