



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: **June – August 2019**
- Drilling duration: **47 days**
- Total footage drilled: **7,540ft**
- Total estimated saving: **\$113,992**
- Estimated SBM savings: **609 barrels**

## OUTLINE

In June 2019, TEMS International commenced work with a US-headquartered exploration and production company to support drilling operations onboard a drill ship in the Gulf of Mexico. The project ran for 47 days, during which time TEMS International engineers oversaw 7,500ft of drilling.

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.

<b>609</b>	<b>Fewer barrels of mud used</b>
<b>\$113,992</b>	<b>Saved on mud costs</b>
<b>3.69%</b>	<b>Average ROC rate achieved</b>
<b>No dryers</b>	<b>used onboard the platform reducing carbon footprint</b>
<b>Spill drills</b>	<b>introduced to train drill rig personnel</b>
<b>Carbon footprint</b>	<b>Of drilling asset was reduced</b>