

CASE HISTORY 6

2018

TEMS
INTERNATIONAL

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 aim to reduce drilling costs and ensure legislative compliance targets are met or exceeded.

- Location: **Offshore Mexico**
- Project date: **November 2018 – January 2019**
- Drilling duration: **78 days**
- Total footage drilled: **9,792ft**
- Total estimated saving: **\$215,968**
- Estimated SBM savings: **537 barrels**
- Shaker screens repaired: **171**

OUTLINE

TEMS International was approached by an existing client – an independent global exploration and production company – to support drilling operations in offshore Mexico. The deepwater project commenced in November 2018 and lasted for 78 days. During the project, more than 9,500ft 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:

- Adhere to governmental zero 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, 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.

OFFSHORE MEXICO

OUTCOME

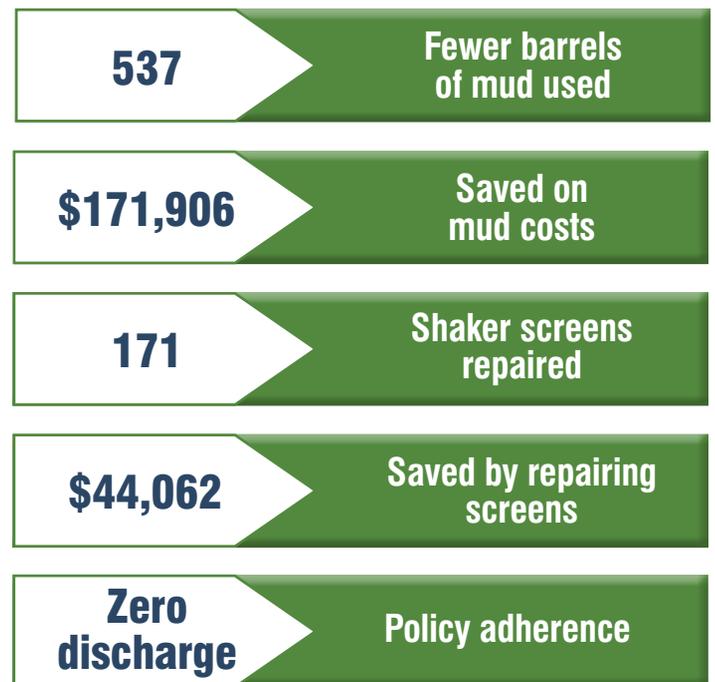
Over the course of the 78-day drilling campaign, TEMS International engineers worked closely with solids control technicians and ISO pump operators. This led to a reduction in synthetic-based mud consumption, ensured environmental compliance with local regulations, and helped reduce overall drilling costs. The result was more than 530 fewer barrels of mud being required to drill the well, saving over \$170,000 on mud costs.

During the drilling campaign, shaker screens were run for more than 1,550 hours. TEMS International engineers repaired 171 screens, enabling their reuse and reducing screen costs by over \$44,000.

Mexican government agencies have established a zero discharge policy in Mexican waters and throughout the drilling campaign TEMS International engineers ensured this was adhered to. This was achieved by optimising the solids control equipment to run at maximum efficiency, with engineers carrying out constant checks to maintain its performance.

TEMS International engineers assisted the client in achieving its environmental aims while carrying out drilling operations in offshore Mexico. Those focused on spill containment and prevention via the identification, and continual inspection, of potential sources of spillage, the introduction of policies for increased crew awareness and rig site procedural improvements.

A series of recommendations were also made which will further improve the environmental performance of the asset during drilling operations.



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