

Well type	Deepwater
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### Background

During displacements, the current filtration unit on the drillship had a throughput too small and footprint too large for efficient deepwater operations and required frequent effort to deal with packoff. A key customer desired a new filtration unit that would increase the flow rate and throughput, minimize HSE risks, and reduce equipment footprint. M-I SWACO, a Schlumberger company, proposed installing a Torrential\* high-flow filtration unit on the drillship in the Gulf of Mexico.

### Technology

- Torrential high-flow filtration unit

## Torrential Unit Achieved 500% More Throughput Over Predicted Performance with No Signs of Packoff

High-flow filtration unit averages 27 bbl/min for a displacement operation processing brine with more than 70 NTU and 1% solids



*The Torrential unit achieved 500% improvement over the expected performance by processing 6,200 bbl [986 m<sup>3</sup>] on its first cycle with no signs of packoff. The following day, the Torrential unit consistently processed 6,700 bbl [1,065 m<sup>3</sup>] per cycle for an entire wellbore cleanout operation. This operation involved nephelometric turbidity units (NTUs) as high as 70 and 1% solids by volume. The average processing rate during filtration was 27 bbl/min [4.3 m<sup>3</sup>/min].*