



Your rig
Our drilling simulator

DILTEC
SOLUTIONS

hiDRILL wellSIM simulators

The industry standard

hiDRILL wellSIM is the first “From the Derrick to the Drill bit” simulation system delivered to the market and remains the best and most realistic system available today. It is an innovative drilling simulator combining a dynamic downhole and topside models, with full visualization in real time, which reacts to the crew inputs the same way they would experience on the rig. It is a safe environment to provide realistic and under stress training, according to client specific procedures and well data, generic or rig specific topside and team behaviour. It can also be used to test procedures and third party systems. hiDRILL wellSIM belongs to our hiDRILL simulator brands.

Drilling cost saving

By purchasing a hiDRILL wellSIM simulator, you can emulate your own rig facilities and the specific wells you plan to drill. This customization enables your crews and support teams to experiment with your actual drilling plan in the simulator and to handle the cases exactly as they should offshore, prior going to mobilization. With this experience, they will need less On-the-Job Training and operational safety and efficiency will increase. Using hiDRILL wellSIM limits the human error in critical operations and improves the procedure use by frequent use and revision. Your people will drill safer and quicker and will save drilling time and rig rental. So you will observe an immediate and significant added value.

Our OILTEC Solutions’ Drilling Academy aims to deliver significant cost savings

for our Clients through the use of hiDRILL wellSIM simulators.

Topside model elements

The topside model emulates the drill floor of an offshore or land drilling rig along with the typical topside equipment. The Drilling Control & Data Acquisition (DCDA) system is also replicated. The operators have Driller and Assistant Driller chairs. Both have touch screens for advanced Human Machine Interface (HMI), as well as remote BOP and choke panels according to regulations. Any theatre solutions, from LCD panels to a large dome, is configurable through the render system.

Downhole model elements

The downhole model includes various modules taking into consideration effects such as hydraulics, torque and drag, oil or water based mud, inertia, acceleration and retardation, temperature and pressure, pore pressure, wellbore stability, Rate Of Penetration (ROP) and a number of other important inputs that all together result in a realistic and dynamic environment for the user.

Some clients using hiDRILL wellSIM

- Statoil, Norway
- CNOOC, China
- SOCAR, Azerbaijan
- Chevron, USA
- Weatherford, North Sea
- IDE Rig, USA

“Being an instructor on the hiDRILL wellSIM simulators is a great pleasure since it’s just like the real world.”

Drilling Instructor

The Statoil ASA utilization and experience with our advanced drilling simulator is presented on YouTube.

<https://www.youtube.com/watch?v=k5PUOgLSj8U>

About OILTEC Solutions

OILTEC Solutions is an experienced global market leader providing simulation technologies to the Oil & Gas and Crane industries.

For more than two decades OILTEC Solutions has delivered high quality software, turn-key simulators, top-end training -to thousands of students- and 3D simulation studies to leading oil & gas, marine and port customers around the globe.



CNOOC Training Center in China



Our Drilling Academy in Stavanger



Rig specific drill-floor example