



Seadrill's West Phoenix

Aug 27, 2018 10:00 BST

Kongsberg Maritime: Real-time monitoring system set to increase operational availability for two Seadrill semi-submersibles

- *Integration of KONGSBERG Riser Management System and Information Management System improves operational safety and reduces non-productive time*

ONS 2018, Stavanger, Norway, 27th August 2018 – Seadrill has selected

Kongsberg Maritime to deliver real-time monitoring systems that will enhance operability in the shallow water harsh environment operations planned for the West Hercules and West Phoenix semi-submersibles. The technology will enable more integrated and remote operations, enabling migration of expertise from offshore to onshore facilities by digitalising assets, personnel workflows and processes, and integrating service operators across disciplines.

Through the integration of the field-proven KONGSBERG Riser Management System and the KONGSBERG Information Management System, the delivery will significantly enhance operational availability and efficiency in harsh environments by providing real-time data acquisition, analysis, monitoring, and a holistic advisory system, which can assist crews to optimise the drilling facility and thereby reduce non-productive time (NPT) for more profitable operation.

The solution will enable drilling in more severe weather and wave conditions than would otherwise be possible – within the structural limits of the platform and specified load limits for the wellhead systems, and with adequate margins to accommodate environmental peak loads and possible incident loads. The system shall also be suitable for tracking of fatigue damage development of the wellhead system during drilling, based on the measured variable wellhead loads and specified fatigue resistance of the wellhead. Additionally, crew will receive guidance on how to position the rig relative to the wellhead, maximising operability and safety margins in normal drilling and extreme/survival conditions.

Kongsberg Maritime will also introduce a unique new electronic Well Specific Operational Guidelines (eWSOG) feature designed to further reduce downtime caused by over-conservative paper-based guidelines required for dynamically positioned rigs. Additionally, by integrating across rig operations it is possible to build a live ‘eWSOG’ that considers the technical operative environment and parameters effecting the operation in both real-time and over a future time period. The result is a real-time and predictive solution that creates a dynamic view of the safe operating window, which can be used as advisory feedback to operations.

“The offshore oil & gas industry is on an upward trend, but operators are looking to squeeze margins to ensure that their harsh environment assets remain economic and profitable,” said Stene Førsund, EVP Global Sales & Marketing,

Kongsberg Maritime. *“Keeping rigs operational is of course the top priority, so we focus on improving safety in operation and reducing non-productive time (NPT). Both rely on keeping the rig in position during drilling and well bore operations while actively monitoring for deviations, and it is here that our real-time monitoring solutions and advisory service deliver significant return on investment.”*

“Much of the key equipment on West Hercules and West Phoenix, including Dynamic Positioning and automation systems, and well bore and drilling operations are provided by Kongsberg Maritime and Kongsberg Digital,” adds Førsund. “By introducing our sophisticated real-time monitoring system and advisory services, the impact of integration across-disciplines and services with respect to managing rig up-time and staying safe during operations is significant.”

Ends

For further information, please contact:

Gunvor Hatling Midtbø, VP Communication

Kongsberg Maritime

Tel: +47 9921 4209

gunvor.hatling.midtbo@km.kongsberg.com

Saul Trewern

Saltwater Stone

Tel: +44 (0)1202 669244

s.trewern@saltwater-stone.com

About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable technology solutions for all marine industry sectors including merchant, offshore, subsea and naval. Headquartered in Kongsberg, Norway, the company has manufacturing, sales and service facilities in 20 countries.

Kongsberg Maritime systems for vessels cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning. Subsea solutions include single and multibeam echo sounders, sonars, AUV/Underwater Robotics, underwater navigation, communication and camera systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio.

In parallel with its extensive technology portfolio, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime delivers solutions that cover all aspects of technology underwater and on the water, aboard new build and retrofit vessels, and on offshore platforms and rigs, often under a single supplier strategy called The Full Picture.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.

www.km.kongsberg.com