



Deepsea Stavanger

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Kongsberg Maritime: Operational advisory solution for Odfjell's 'Deepsea Stavanger' Harsh Environment Semi-Submersible

- *KONGSBERG delivery includes integrated Riser Management System, KONGSBERG Information Management System and Subsea Instrumentation*

ONS 2018, Stavanger, Norway, 27th August 2018 – Odfjell Drilling has

awarded Kongsberg Maritime the contract to deliver a real-time monitoring and advisory solution to provide operational safety and non-productive time (NPT) improvements for the 6th generation semi-submersible, Deepsea Stavanger. The contract is in specific relation to an upcoming offshore South Africa campaign awarded to Odfjell Drilling.

Kongsberg Maritime's integrated services and systems delivery for Deepsea Stavanger is designed to provide high operational safety and availability in deepwater harsh environments, strong currents and high waves. The scope of supply includes the field-proven KONGSBERG Riser Management System (RMS) and the KONGSBERG Information Management System (KIMS), in addition to an extensive subsea technology delivery including Motion Reference Units, Sonar, underwater cameras and laser guidance.

The KONGSBERG RMS features dynamic operability and dynamic watch circles, and high-end accurate BOP and riser instrumentation, with all functionalities integrated into the existing KONGSBERG technology on board, which includes Dynamic Positioning and automation systems. The integration will provide real-time monitoring and operational advice, contributing to reducing conservative operational limits due to uncertainties caused by lack of data. The system also provides functionality to support diverse operations, with safety and efficiency, including vortex induced vibration (VIV) detection.

The KONGSBERG Information Management System is part of the delivery and allows replication of all RMS and related data to shore, opening the door for significantly improved operational support from diverse stakeholders including Kongsberg Maritime, the rig owner and oil company experts, as well as providing targeted dashboards and applications accessible on the rig and ashore. The result is a more efficient use of man-power and the ability to generate tangible improvements in non-productive time to support profitability. The KONGSBERG Information Management System also collects structured data typically used as basis for improved analysis of other wells.

"Through the integration of our Riser Management System and KIMS, we can enable even higher levels of valuable operational advice, resulting in safer, more effective and more profitable drilling," said Stene Førsund, EVP Global Sales & Marketing, Kongsberg Maritime. "Our solution for Deepsea Stavanger also meets Odfjell's vision for more integrated and remote operations, where all aspects of a campaign are further digitalised, contributing to a more holistic view that enables more informed and dynamic decision making."

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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.

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