Drilling with a sixth generation semi-sub in shallow water

Overview

An operator was planning a drilling campaign in the Norwegian North Sea using a sixth generation semi-sub in 380m water depth. The client became concerned about the implication of the campaign on the fatigue life of the wells, as the pre-drilling analysis had predicted a poor fatigue response.

The client engaged Pulse to provide a monitoring system which would enable the operations team to manage the well fatigue life during the drilling.

Benefits

- DrillASSURE software measured strain to provide real-time evaluation of fatigue life remaining in conductor
- Drilling team can track conductor fatigue life usage through the drilling campaign and ensure that the operation is kept within the defined parameters
- Online measurement and evaluation of data

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DrillASSURE software providing real-time evaluation of fatigue life remaining in conductor.

System at a glance:

- 1 INTEGRistick measuring strain below the upper tension ring hardwired to a topside control unit.
- 2 INTEGRipods positioned above and below the lower flex joint to measure differential bending across the joint.
- DrillASSURE software to manage measured strain data and convert to remaining fatigue life of key hot spots.

Riser:
- INTEGRistick measuring strain.

Subsea:
- 2 INTEGRipods measuring bending.

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