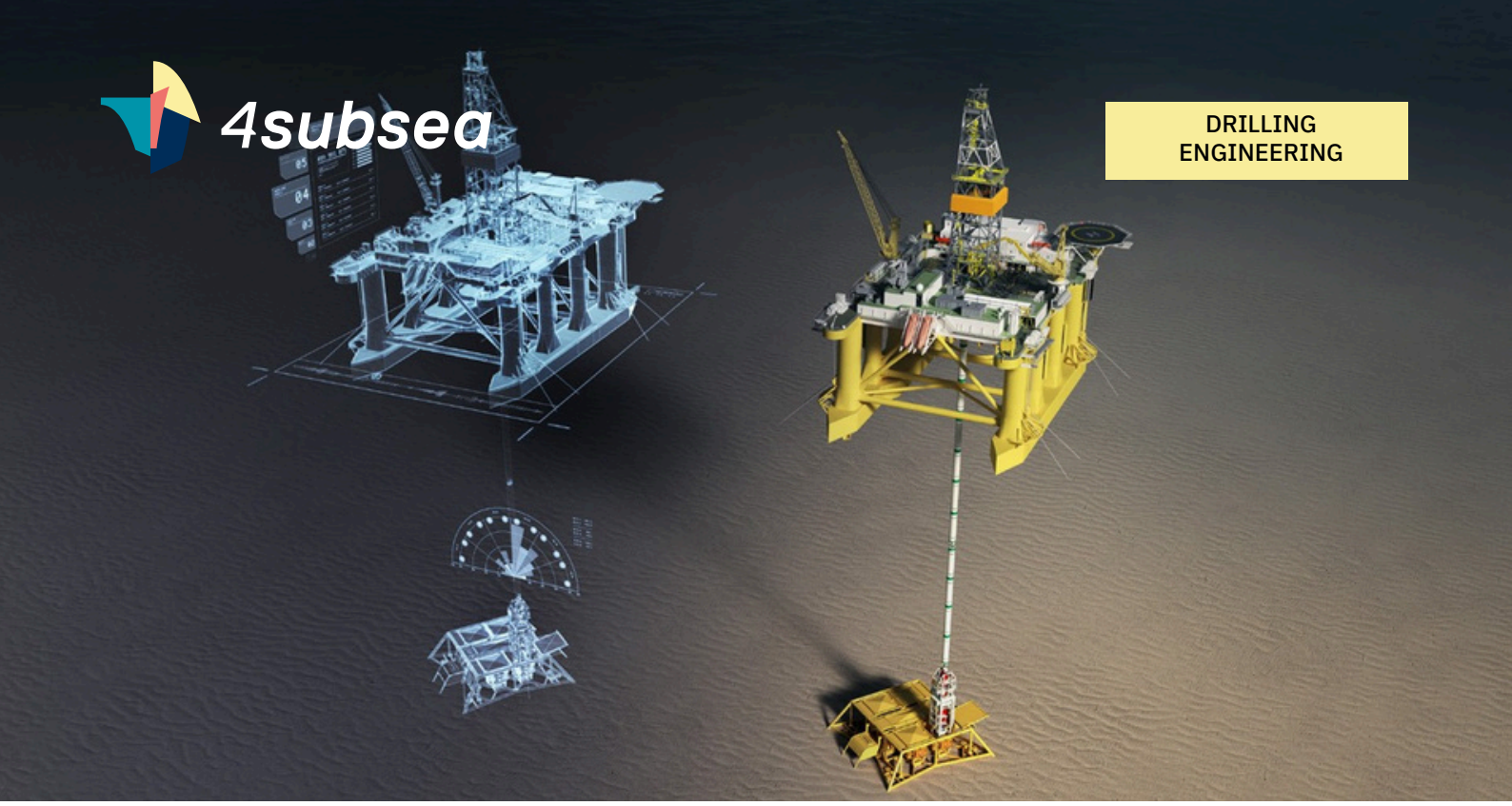


DRILLING ENGINEERING

DP Feasibility Study

Assess DP feasibility as alternative to mooring

4Subsea helps operators assess whether dynamic positioning is feasible for a planned drilling campaign before committing to a moored rig. We compare candidate rigs, identify limitations, and establish whether configuration changes or load-reduction measures could make DP a viable alternative to costly mooring.

The study provides an independent, project-specific engineering basis for rig selection. It is designed for early campaign planning and rig tendering, where operators can still evaluate alternatives and incorporate technical findings into the contracting decision.

KEY DELIVERABLES

- → Project-specific DP feasibility assessment
- → Comparison of candidate rigs
- → Baseline for riser, wellhead and conductor integrity
- → Identification of structural and operational constraints
- → Required wellhead load reduction, where relevant
- → Recommendations for mitigation and further engineering

PROJECT SPECIFIC ENGINEERING

DP feasibility does not depend on water depth alone. It is influenced by rig characteristics, disconnect sequence, riser configuration, conductor and wellhead capacity, environmental conditions, and operational limits. Different drilling rigs can generate significantly different wellhead loads under the same conditions. Consequently, conventional water-depth guidelines and conservative assumptions may overlook technically feasible DP solutions.

Even when DP is not feasible under the baseline configuration, the study can identify mitigation measures that may enable DP operations. This provides operators with a sound engineering basis for comparing rigs, challenging conventional assumptions, and making informed contracting decisions before committing to a drilling unit.

WHEN TO USE THE STUDY

Use the study during campaign planning and rig tendering, before the rig is contracted.
It is suited to subsea wells drilled from semi-submersibles or drillships where the viability of DP is uncertain and rig-selection flexibility remains.

Discuss your well locations and candidate rigs with our drilling engineering team before rig selection.

SUPPORTING RIG SELECTION

- Compare candidate rigs against planned campaign requirements
- Identify configuration changes and mitigation needs before contracting
- Evaluate whether DP could reduce mooring activities and associated costs
- Support an informed decision to pursue DP or retain conventional mooring

INPUTS AND SCOPE

Scope is tailored to the decision and available information. Starting inputs may include candidate rig configurations, preliminary well schematics, water depths, metocean data and soil information. Existing rig models may support preliminary screening, subject to configuration confirmation.

FROM FEASIBILITY TO OPERATIONS

The study provides a focused basis for early decisions. Detailed riser and conductor analyses and mitigation engineering follow as required. Further support can include wellhead load-relief assessment, SWIM monitoring and DynOps operational decision support.

WHY 4SUBSEA

4Subsea combines harsh-environment drilling engineering experience with accumulated data and models covering more than 35 drilling rigs. Our expertise in riser, conductor and wellhead analysis is supported by subsea monitoring data that can inform model refinement.

4Subsea is a leading provider of technology and services that help operators optimise energy production from subsea oil & gas fields and offshore wind farms. We combine domain expertise with data analytics and digital services to maximise lifetime of assets, reduce operational cost and optimise future projects through data-driven design.

The company was established in 2007 and clients include the major energy operators as well as the large suppliers of subsea equipment. 4Subsea is headquartered in Asker, Norway with additional offices in Bergen, Kristiansand, Stavanger, Rio de Janeiro, Kraków and Aberdeen. 4Subsea is a company in the Subsea 7 Group.

4Subsea - Share ideas, move forward

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