

# K-BOS & SWDP

Presentation to Havtil's Well Control Day - 19.02.2025

# Background

## K-BOS integration on Deepsea Stavanger

- Deepsea Stavanger
  - 5 year contract with Aker BP
  - Contract start & SPS in 2025
  - Attractive rig & Competent organization
  - Long term relationship Odfjell & AkerBP
  
- Safety initiative
  - Improved Shearing capabilities
  - Instantaneous
  - Seal functionality
  
- Enabler for Shallow water Dynamic positioning
  - Business case enhancer for K-BOS



# K-BOS Technology

## Kinetic Blowout Stopper

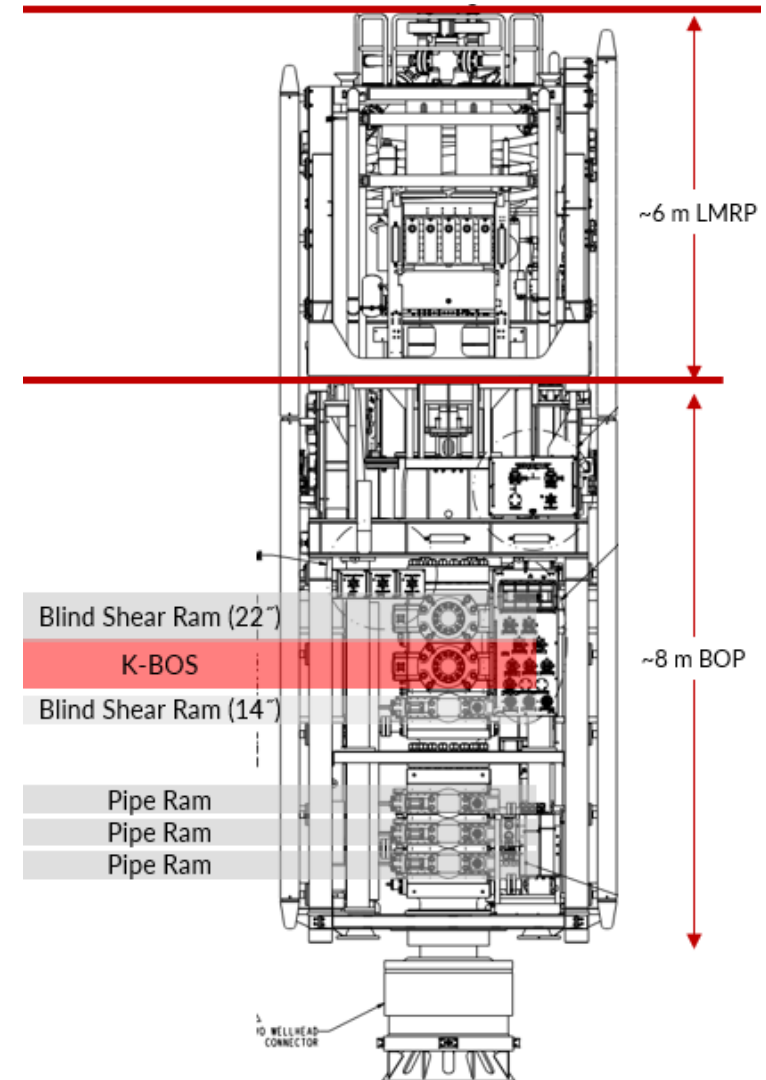
- Pyro-mechanical gate valve
  - Shear the string in milliseconds (<0.1 sec vs. 18+ sec)
- K-BOS can shear “anything”
  - Seal in same operation
- Proven technology
  - DNV qualified
  - Installed and in operation
    - 23 units delivered worldwide
      - 12 Subsea systems
- DSS First system for NCS



# DSS Integration

## Integration of K-BOS on Deepsea Stavanger

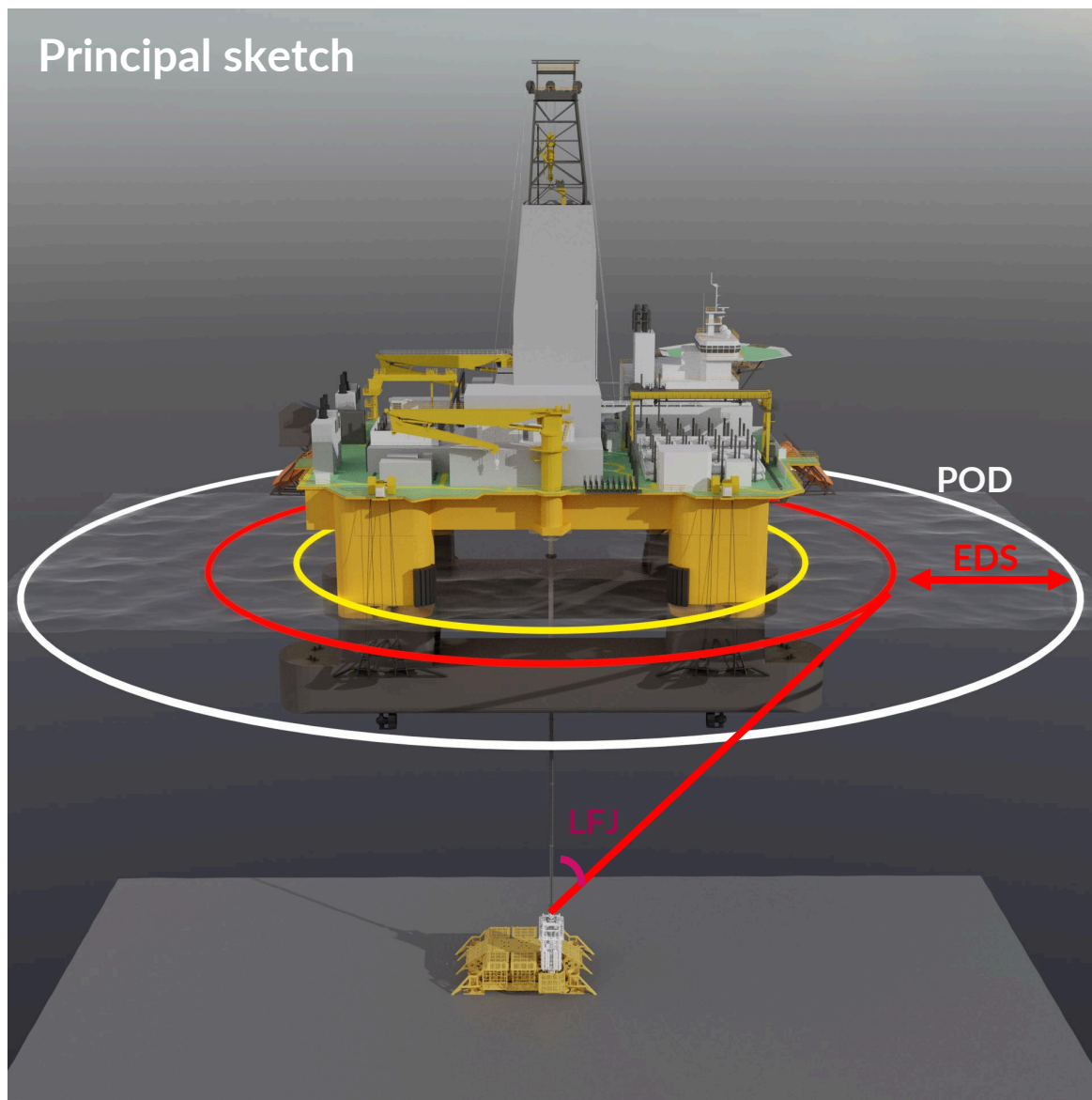
- Retrofit Kit for NXT BOP
  - Substitute Casing Shear Ram with K-BOS
  - Blind Shear Ram functionality maintained
- Integrated in NOV control system
  - Use NOV control system for activation
  - Minimal changes to HMI & Procedures
- K-BOS control system used for monitoring only
  - Continuous real time loop testing
  - Diagnostic function testing
- Establish additional K-BOS EDS sequences
  - Maintained existing EDS sequences
- Back-up
  - K-BOS secondary kit system available
  - Re-convert to original NOV CSR configuration



# Shallow Water DP

## Shallow water Dynamic Positioning

- Semi-sub drilling operations
  - Moored for shallow water (70 – 300m)
  - Dynamically positioned (DP) on deeper water (>300m)
  - DP normally preferred where possible
    - Risk reduction; no mooring-lines or AHV operations
    - Cost & Flexibility
- Yggdrasil water-depth 105-120m
  - Significant share of Aker BP subsea wells below 150m
- FEED studies performed in 2024
  - Possible to operate DSS on DP > 100m water depth
  - Maintain existing DP footprint limits
  - K-BOS is enabler for SWDP
  - Reduce total EDS time from 33 sec+ to 3-5 sec

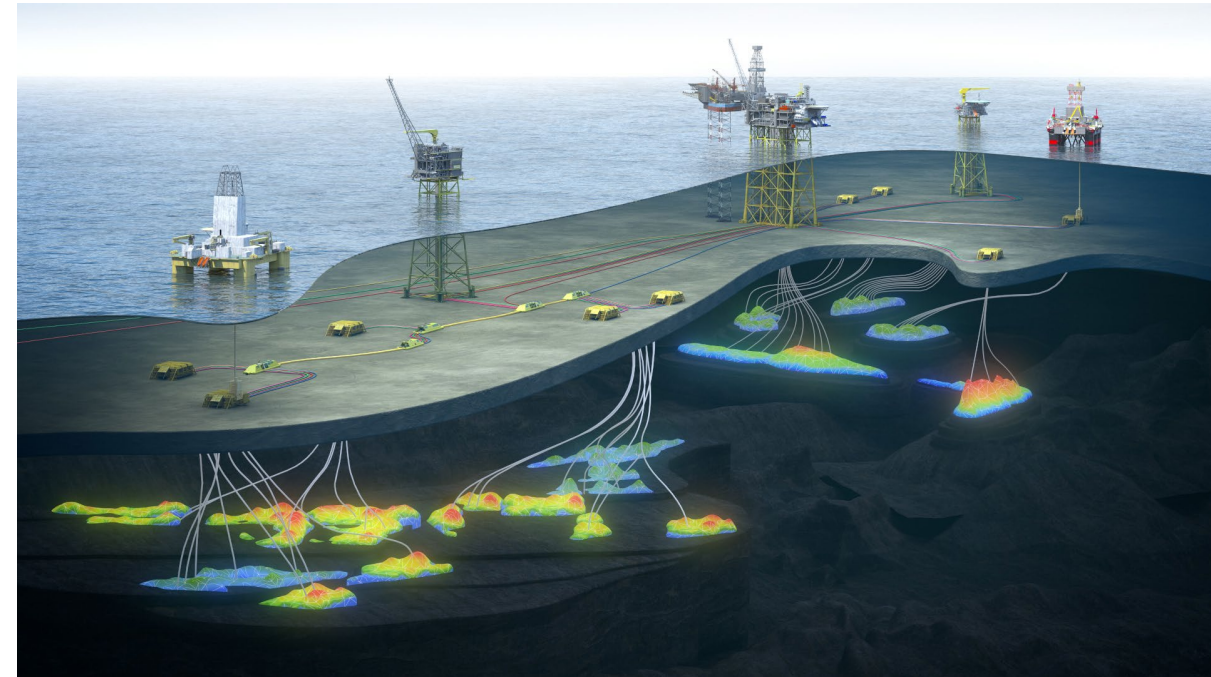




# Safety, operational and economical benefits

## Main benefits with K-BOS & Shallow Water DP

- **K-BOS Safety and operational benefits**
  - Increased shearing capabilities
    - Shear all planned drill-string components
  - Shear in milli-seconds.
  - Seal in same operations
    - BSR seal after disconnect maintained.
  - Continued monitoring vs regular function testing
  - Enabler for Shallow Water DP
  - DSS installation Q2-Q3 2025
- **Shallow water operational and economical benefits**
  - Remove need for mooring spreads and mooring operations
  - Increase flexibility for SIMOPS and well backup activities
  - Optimized heading possibilities
  - Less total CO<sub>2</sub> emissions for single wells
  - Strong long term business case
  - SWDP start operation 2H 2025





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