

Safe rigging in well intervention

Searching for the “sweet spot”?



Safe rigging during well intervention

- Closely related to double securing- see [presentation](#) from Lasse Nordhus (Archer) from the Intervention Day in 2025

Background

Havtil – The activities regulations § 92 Lifting Operations
"It shall be ensured that personnel do not come under suspended loads"

NORSOK R-003

4.8.1 Fundamental Safety Requirements
Personnel shall not walk under suspended load.

6.3.4 Well Intervention equipment
Before personnel may perform work underneath a suspended load, the load shall be secured so that the lifting appliance is not load-bearing

NORSOK R-002

4.1 Safety Goals
The lifting equipment shall be designed in such that no common cause failures or a single failure results in an unacceptable risk as determined by the risk assessment

New technology – Double Securing Installations

- 2020 – Start of a journey with multiple double securing solutions introduced in the Wireline operations
- Wireline Safe Frame (Norse Technology)
 - LYNX mast (Dwellop)
 - InterLift (Wellvene)
 - ALPA winch (Axess group)
 - Lubricator Securing Bridge (Stavanger Engineering)



What we have implemented so far

- 1995: Handsaver
- 1995 -2000: Well interventions towers
- 2006-2009: Wireline Safe beam
- 2020-2025: Tension frame (ex Visund), Lynx & Wireline Safe Frame





Heidrun safe rigging project



Baker Hughes 

[Link](#) to video for lowering riser down onto Ezi-latch during rig up



Finding the «sweet spot» in future well interventions

«Wish list» for equipment:

- Small footprint
- Low weight
- User friendly
- Increased efficiency
- Multiple functionalities
- Robotic arms?
- AI functionality?
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- Low cost



Finding the «sweet spot» in future well interventions

In real life..

- Each work site is «custom made»
- Sometimes we must compromise functionalities to ensure safety with available equipment
- Iterate to improve solution
- New equipment -> new risks

There is probably not a single «sweet spot» that fits all work sites
Prioritize & iterate



Safe rigging in well intervention: Finding the “sweet point”

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References

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- Baker Hughes
- Dwellop
- Wellpartner
- Norse Technology
- Hunting