

Jackup Rig Move

Kristoffer Hjellestad, Disipline Responsible Marine Operation



Agenda

- 1. Odfjell Technology
 - a. Marine operations in OTL
- 2. Linus
- 3. Jackup Rig Move
 - a. Preparing a Jack up move
 - b. Preforming rigmove

Odfjell Technology At a Glance

Part ownership in and strategic partner to Odfjell Oceanwind AS

Platform drilling, < maintenance, modifications & upgrades Projects & Engineering hubs in Norway, UK, Dubai and Manila Serving the onshore sector as well as offshore

MODU expertise:

- Compliance Management
- Asset Integrity Management
- Emissions Reduction & Energy optimization

Worldclass supplier of well services equipment and personnel Global equipment inventories and operational bases •

Marine Operations in OTL

- Deliviering resources to Odfjell Drilling
- Logistics and Projects towards the MODU rigs
- Delivers projects, mooring analyses, Riser analyses, marine support and Towmaster towards Linus
- In 2024 we delivered approx 100 mooring and riser analysis
- Delivers technical and marine support towards Odfjell Ocean wind





• odfjell

Linus

- Linus are a Jack up rig of Gusto MSW CJ70-X150A Design
- Have operated since 2015 for ConocoPhilips on the Greater Ekofisk field
- Managed by Odfjell Platform Drilling AS and is owned by SFL Linus Ltd (SFL Corporation LTD)



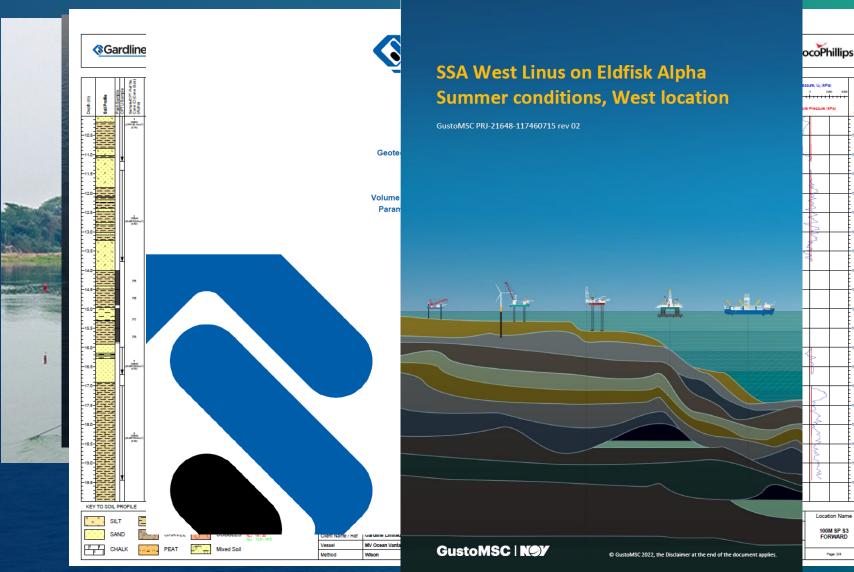
odfjell



7

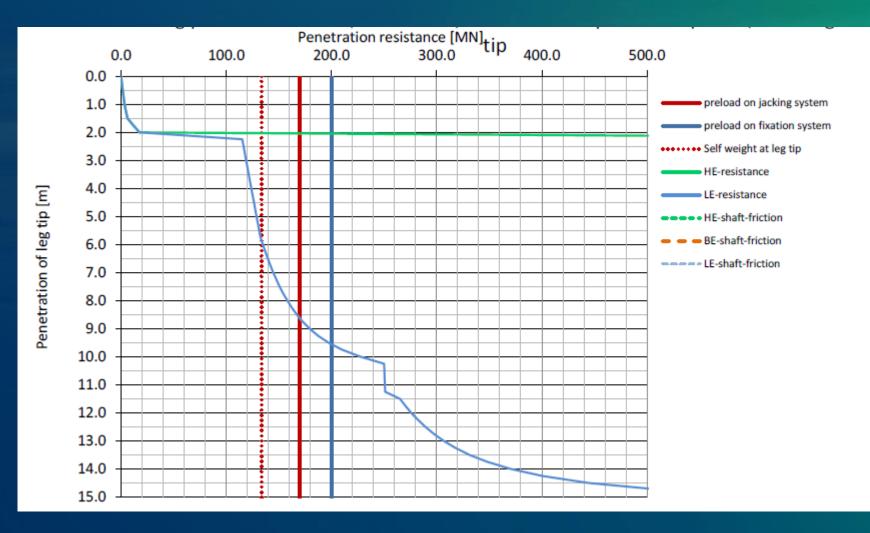
Page: 2/4

Preparation for Jack Up Move



•odfjell technology

Preperation for Jack Up Move



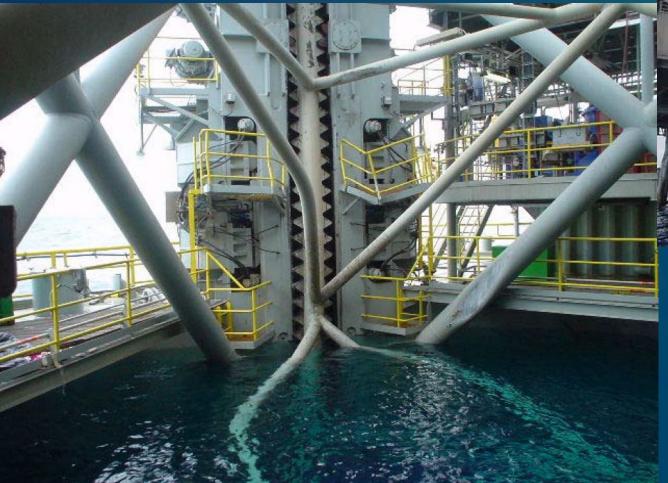
Why do we do all this, Punch through!! (Or fast rapid penetration)

Noble David Tinsley experienced this «punch through» while preloading outside Qatar.





Why do we do all this? Punch through!! (Or fast rapid penetration)







Punch through!! (Or fast rapid penetration)

Vantage Drilling, Sapphire Driller experiences a «Bow leg run» /Punch Through in 2009

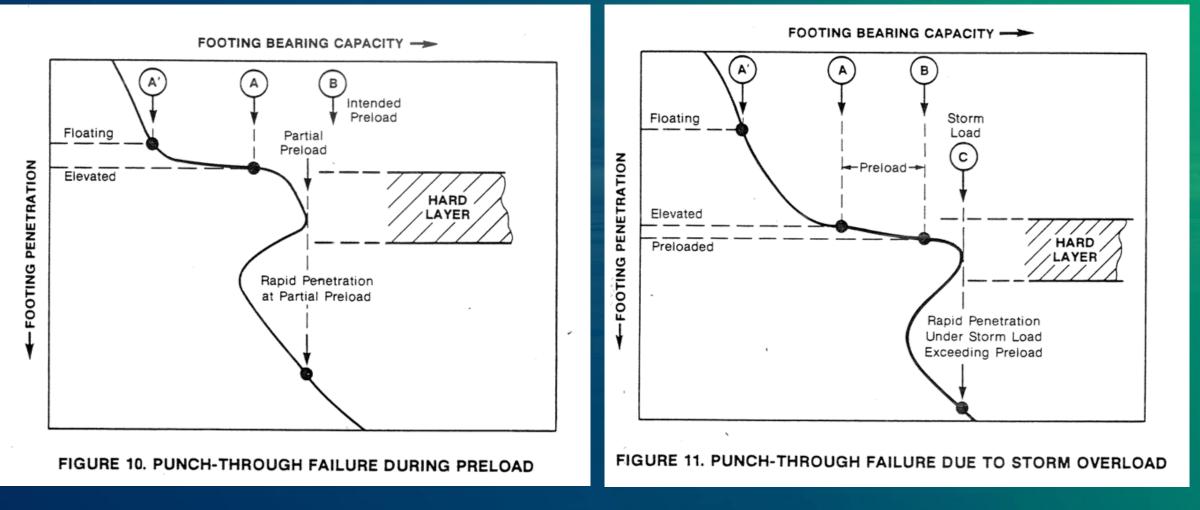
It appears a zero air gap preload was being cinducted, witch mostlikely minimized potential structure failure





Punch through

•odfjell technology



Seabed debree survey

•odfjell technology



Seabed debree survey

odfjell technology



Debree on seabed, spud cans





Debree on seabed, Removal

• odfjell technology

Solution:

- 20T Excavator & 5.4TGrab mobilized through Scanmudring
- Olympic Triton (vessel) mobilized through Reach Subsea

Method:

- The excavator crushes and collects the cement in piles
- The grab moves the cement to a dedicated storage area
- Machines are powered through umbilical from vessel
- Transponders & digital grid system to determine subsea location
- Dedicated ROV supporting with cameras

Timeline:

- · Sept: Debris survey (MBES)
- Oct: Debris survey (data gathering)
- Nov: Verify hardness of cement (tool testing)
- · Dec: PO in place with Reach Subsea Mob vessel 27th of Dec
- WOW for 5-6 days Jan: Deploy Excavator 6th of Jan Deploy Grab 10th of Jan Final survey & Demob

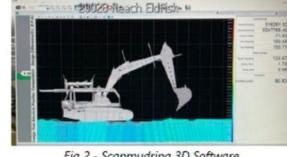


Fig 2 - Scanmudring 3D Software

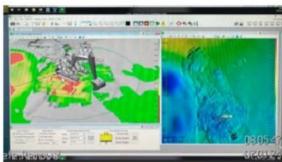


Fig 2 - Scanmudring 3D Software



Fig 3 - Olympic Triton



Fig 4 - Deploying Excavator

Fig 5 - Deploying Grab



Fig 6 - Grab & Excavator on Olympic Triton

Departure – Freeing legs



- Legs and spud cans are stuck in the soil due to a combination of vacuum underneath spud can and soil on top of spud can
- Jetting below Spud cans will break down the vacum and start filling up the gap generated by legs creeping upwards.
- Hull bouyancy is mostly used in our waters, but in some areas jetting is needed.
- Freeing legs are one of the so called flat areas for the vessels, it looks that nothing is happening, the rig is just standing there, and somtimes the vessels are eager to «get on with it» but the action level in the controll room are high.

Departure – Freeing legs

odfjell technology

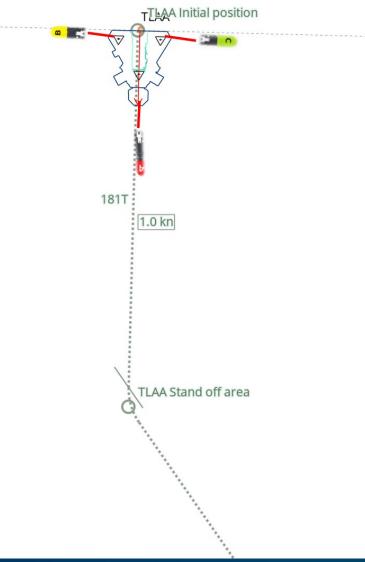


Departure – Freeing legs



Preforming Rigmove

Normal setup for rigmove is 3 vessels. One AHV and two tugs.





Preforming Rigmove, The fun stuff!





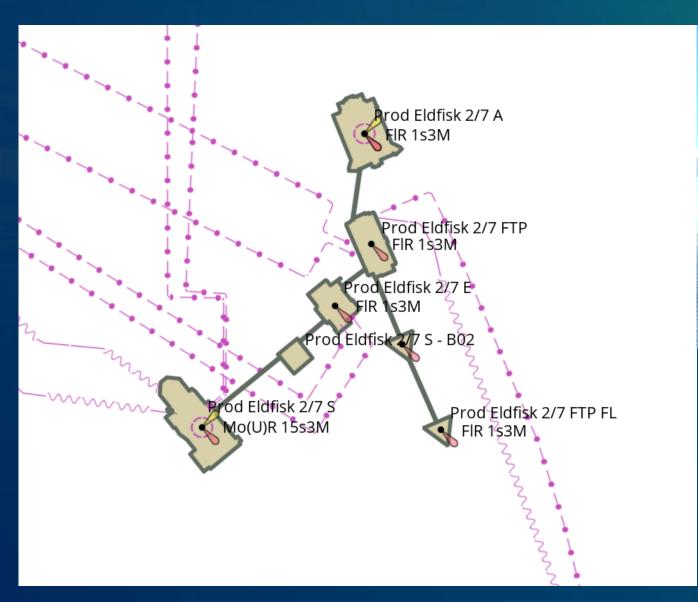
Preforming Rigmove, Transit





Preforming Rigmove, Final positioning

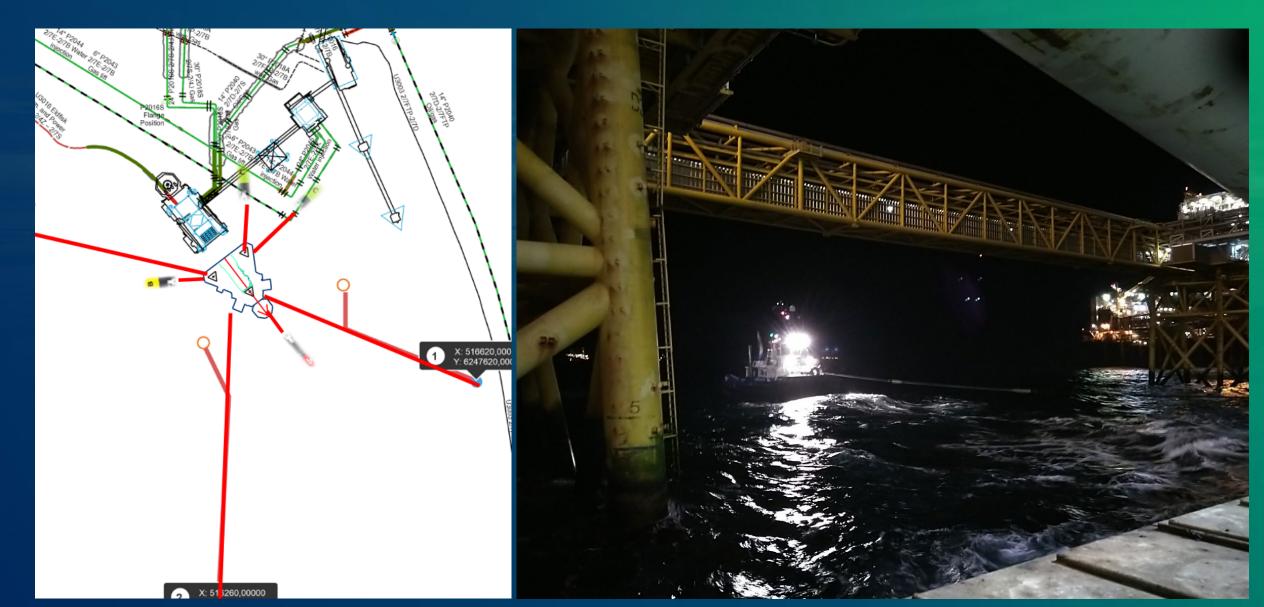






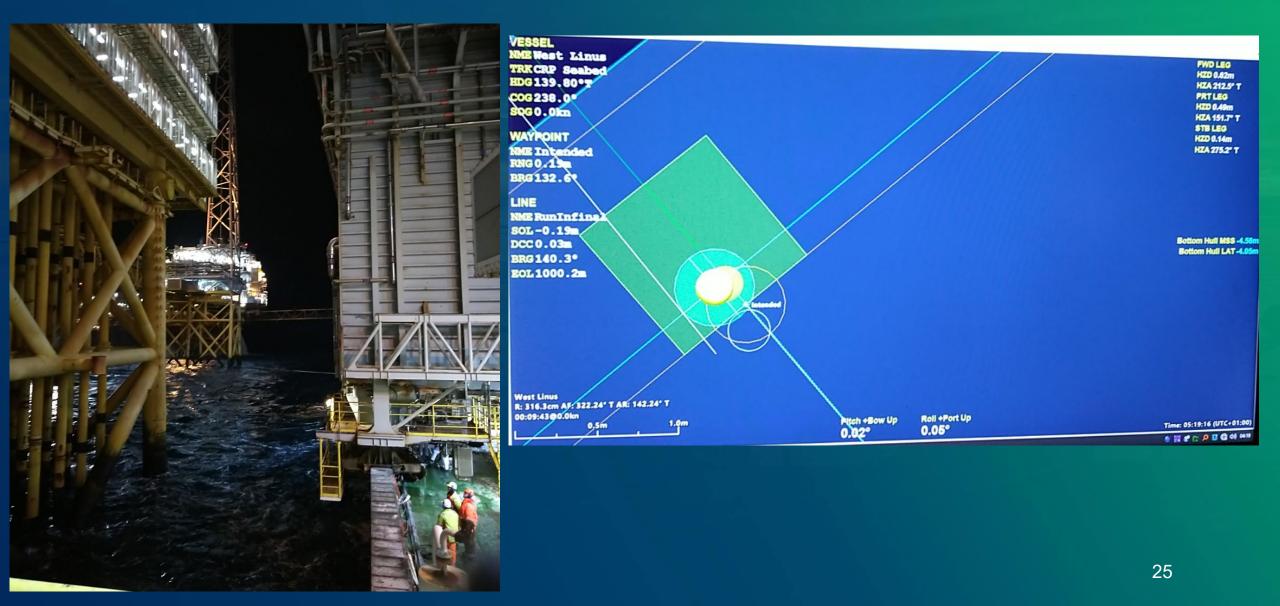
Preforming Rigmove, Final positioning





Preforming Rigmove, Final positioning



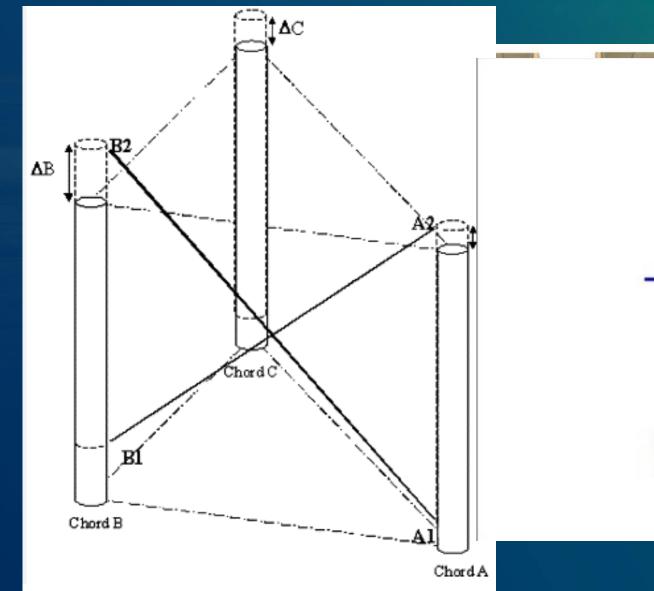


RPD = Rack Phase Difference

• Might result in a Bow legged appearance



26



•odfjell technology

Thank you for the attention!