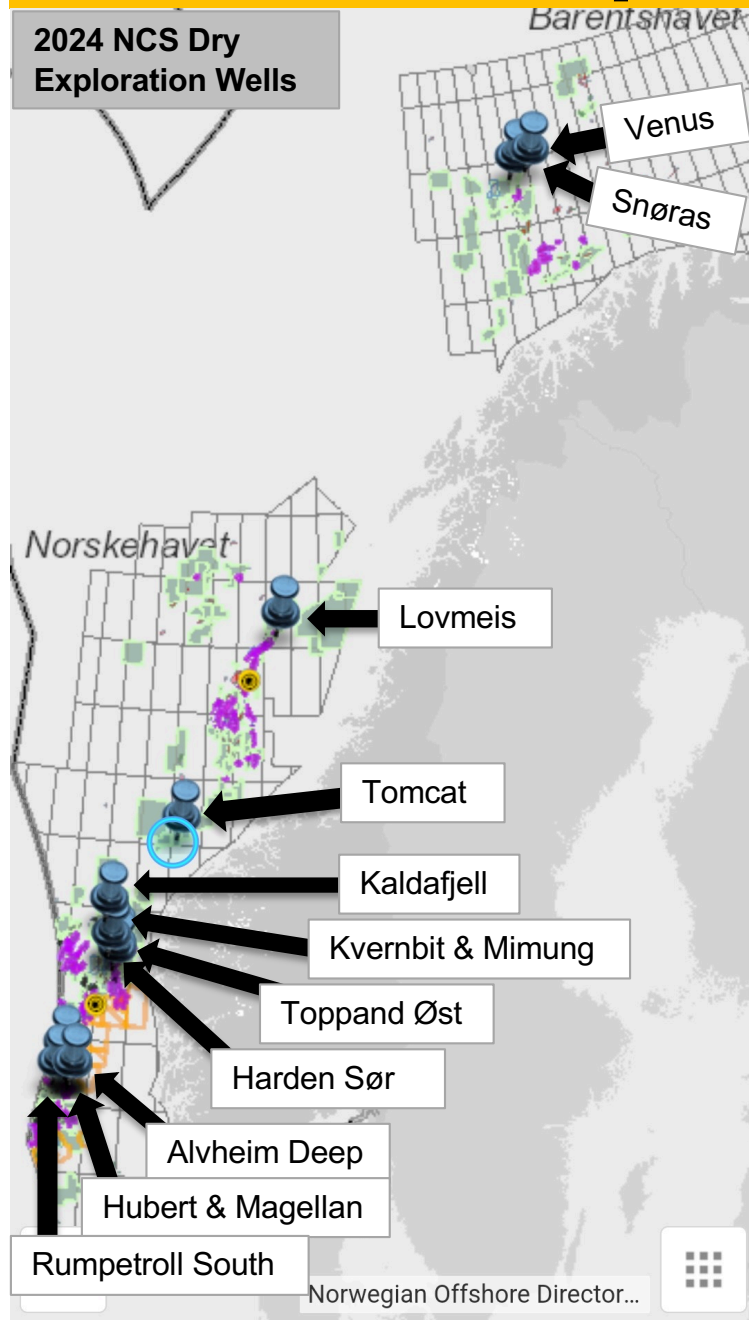
The background of the slide is a stylized map of the North Atlantic and Arctic regions. It shows the outlines of North America, Europe, and Asia, with a color palette of light blues, greens, and yellows. The map is centered on the Arctic Ocean, with Greenland and Iceland visible on the left, and the British Isles and Scandinavia on the right.

# **Report: 2024 NCS Exploration Drilling – Review of Dry Wells**

**Stephen Adeniran (Exploration Advisor)**

# 2024 NCS Exploration: Review of Dry Wells



## Dry Wells per Basin

### ▪ North Sea Basin

- Kaldafjell (Lower Jurassic target).
- Kvernbit & Mimung (Jurassic targets).
- Toppand Øst (Middle Jurassic Brent Group target).
- Harden Sør (Upper Jurassic target).
- Alvheim Deep (Jurassic target).
- Hubert & Magellan (Paleocene & Eocene targets). Traces of hydrocarbon found.
- Rumpetroll South (Eocene target). Small, non-productible gas found.

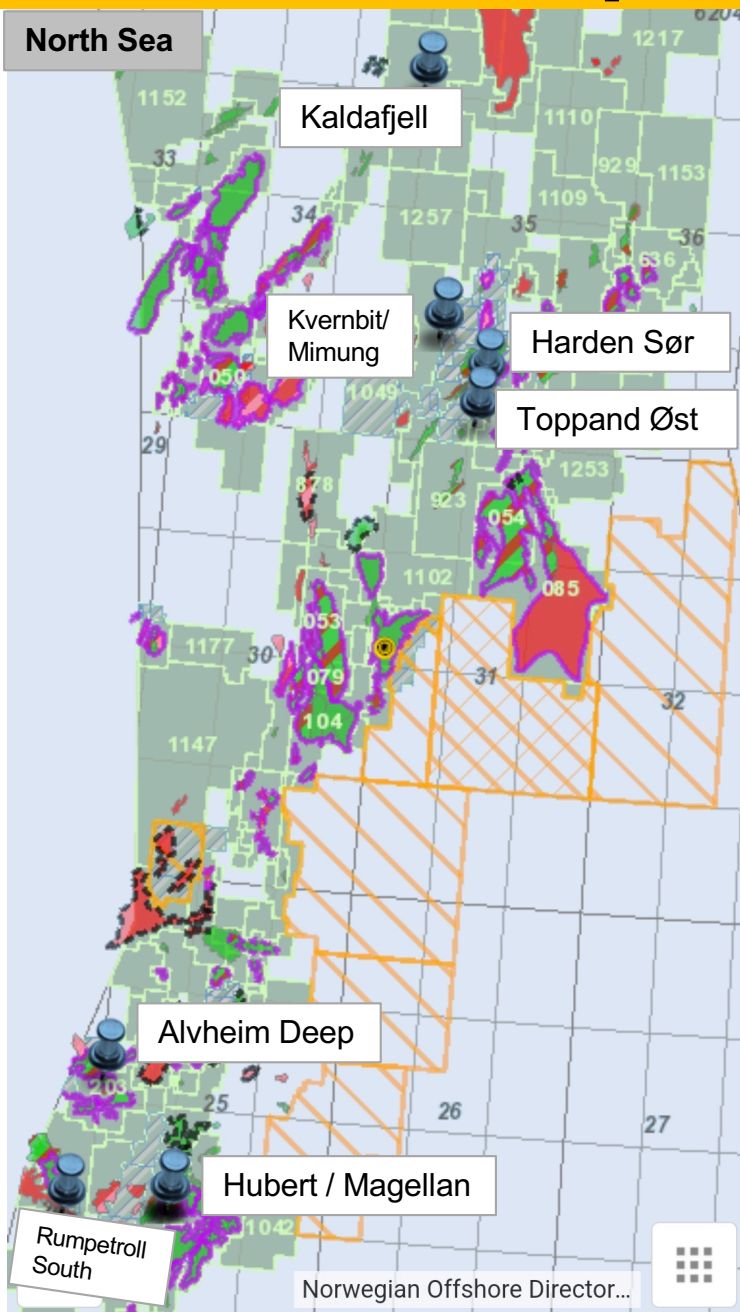
### ▪ Norwegian Sea Basin

- Tomcat (Cretaceous target).
- Løvmeis (Middle Jurassic target).

### ▪ Barents Sea Basin

- Venus (Paleocene target). Gas traces found.
- Snørås (Lower Jurassic target). Traces of hydrocarbon found.

# 2024 NCS Exploration: Review of Dry Wells

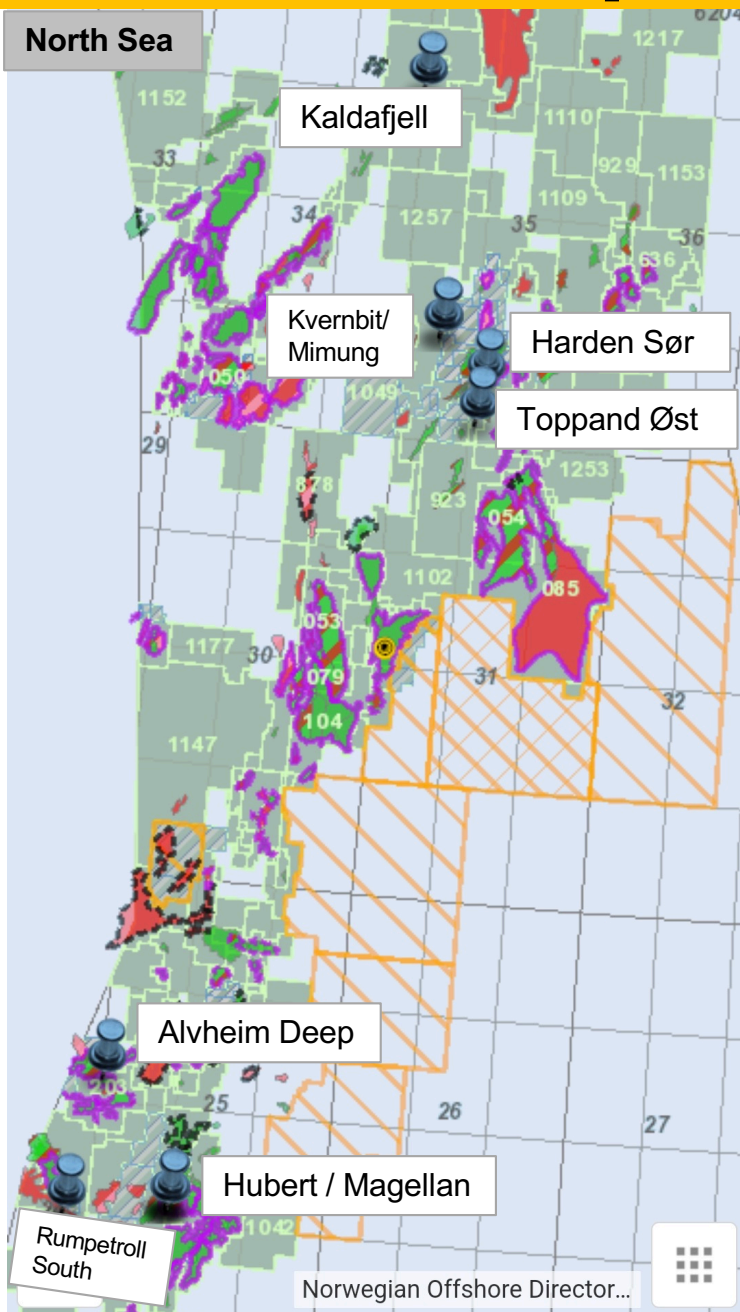


## Report Highlights

- **Follow-the-Crumbs:** An investigative review was carried out to examine and identify the likely causes of failure, and to identify missed targets and potential future discoveries.
- **Observations**
  - Patchy amplitude extraction maps.
  - Patchy, non-consistent amplitude strength within the mapped trap structure.
  - Small faults clustered near the crest of the trap structure.
  - Heterogenous seismic character associated with the top seal reflection event.. This raises an important question / discussion point – why is the seismic data not being fully used, given the cost of acquisition and processing? Why were the clear seismic indicators not incorporated?



# 2024 NCS Exploration: Review of Dry Wells



## Report Highlights

### ▪ Likely Causes

- Compromised top seal due to fault reactivation or thief sands in the top seal.
- Bridged trap or trap failure due to fault reactivation or structural inversion. Note – oftentimes “hydrocarbon charge” is reported as the likely cause of failure when it’s really “trap failure”.
- Wrong target selected, or missed target due to drilling outside the intended reservoir play fairway.
- DHI observed or occurring in a non prospective interval... This raises another important question / discussion point – To what extent should you be DHI-driven vs DHI-supported in your prospect drilling portfolio or exploration strategy?

- **Products:** Dry well reports. Opportunity generation maps.



# Thank You!

For more details on specific wells, likely cause of failure, identified missed targets and opportunities for future discoveries... Send an email to – [consulting@ytfexploration.com](mailto:consulting@ytfexploration.com).

Meet

# YTF Exploration Consulting



Stephen Adeniran

❑ **Focused** on providing insights, reports, and multi-client subsurface products in support of exploration workprogram activities on the NCS.

- **Play Reviews:** PBE approach. Review of Underexplored Plays and Emerging Plays on the NCS. Review of what's tested vs untested / proven vs unproven. Products – Regularly updated play maps and highgraded areas. Opportunities for acreage screening and APA rounds application. Prospectivity maps. Farm-in opportunities. Insights.
- **Follow-the-Bit:** Prospect Reviews (target, trap style, prospect critical work, well predictions). Review of planned / active exploration wells on the NCS. Products – Monthly NCS Exploration Drilling updates. Insights. Biannual report.
- **Follow-the-Crumbs:** Investigative review of dry exploration wells, hydrocarbon shows, and minor discoveries. Aim – Identify causes, missed target, bypassed pay, and potential next discoveries. Products – Dry well reports. Opportunity generation maps / Lead maps.

Contact – [consulting@ytfexploration.com](mailto:consulting@ytfexploration.com)