

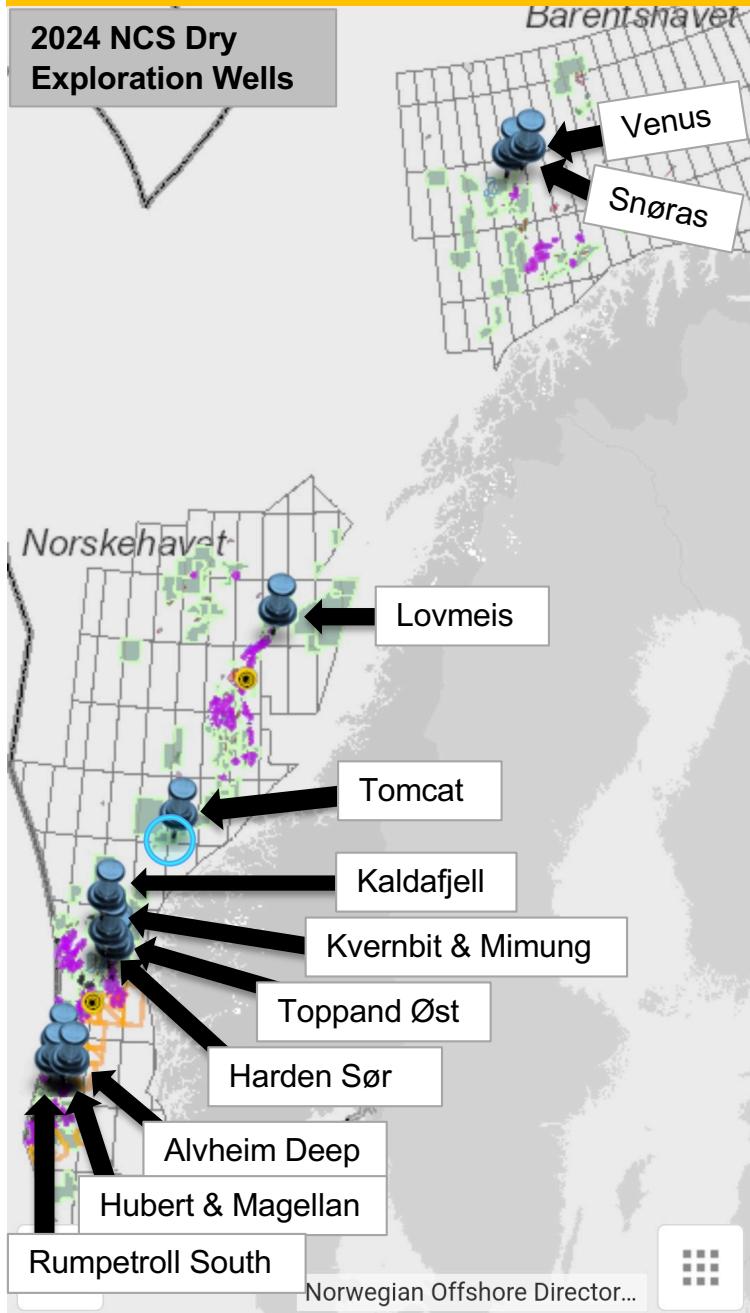


# **Report: 2024 NCS Exploration Drilling – Review of Dry Wells**

**Stephen Adeniran (Exploration Advisor)**

# 2024 NCS Exploration: Review of Dry Wells

2024 NCS Dry Exploration 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-producible gas found.

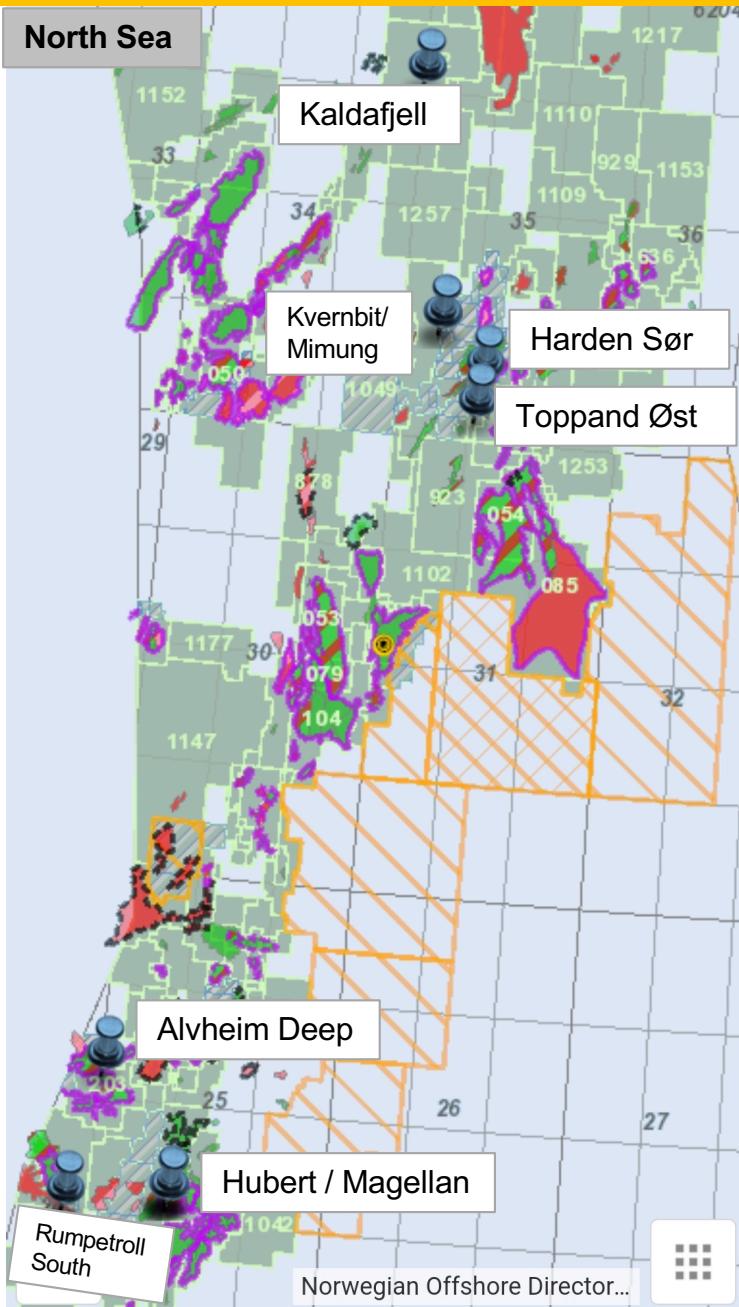
### ▪ Norwegian Sea Basin

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

### ▪ Barents Sea Basin

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

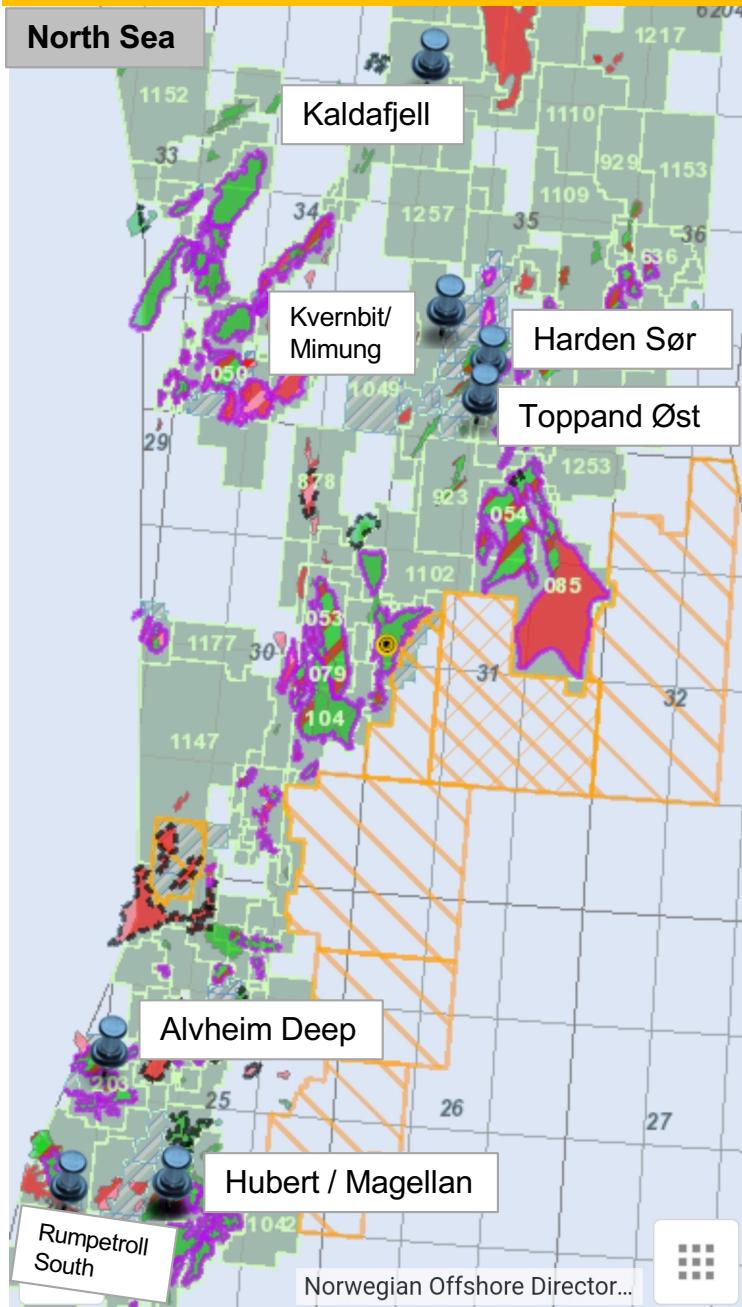
# 2024 NCS Exploration: Review of Dry Wells



## 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?

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## 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!

A faint, semi-transparent world map is visible in the background of the slide, showing landmasses in green and blue oceans in a light, out-of-focus style.

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

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



Stephen Adeniran

- **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.

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