Erfaringer med Seabox felttest på Ekofisk

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Cautionary Statement

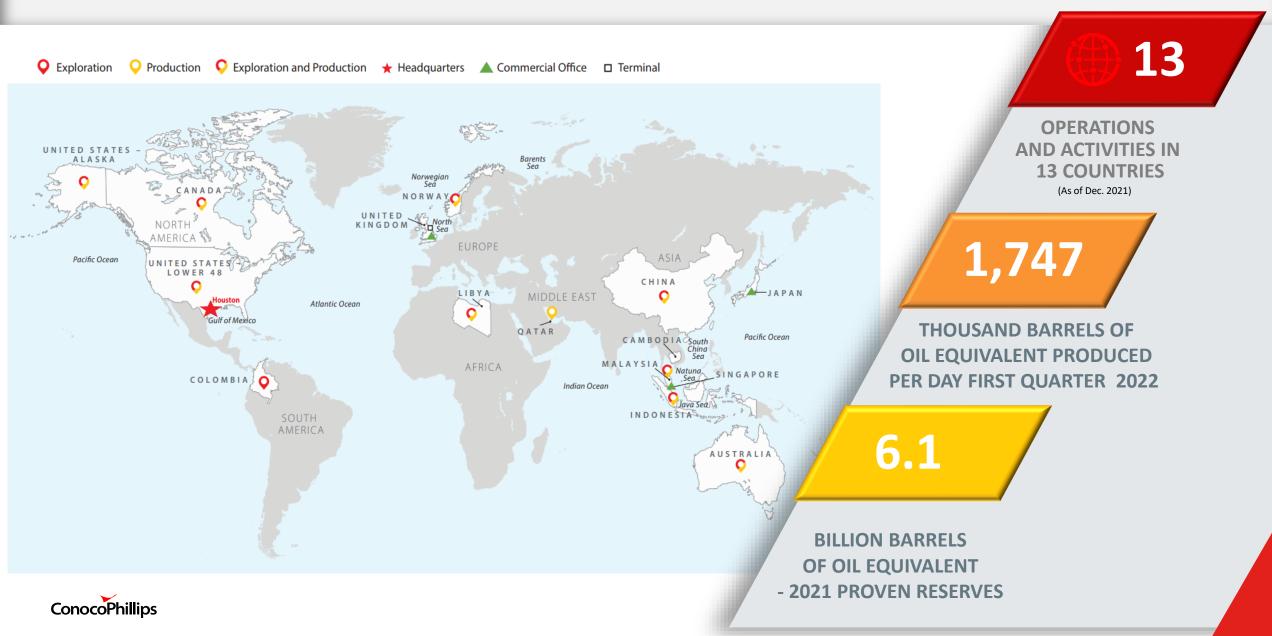
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Our Worldwide Operations

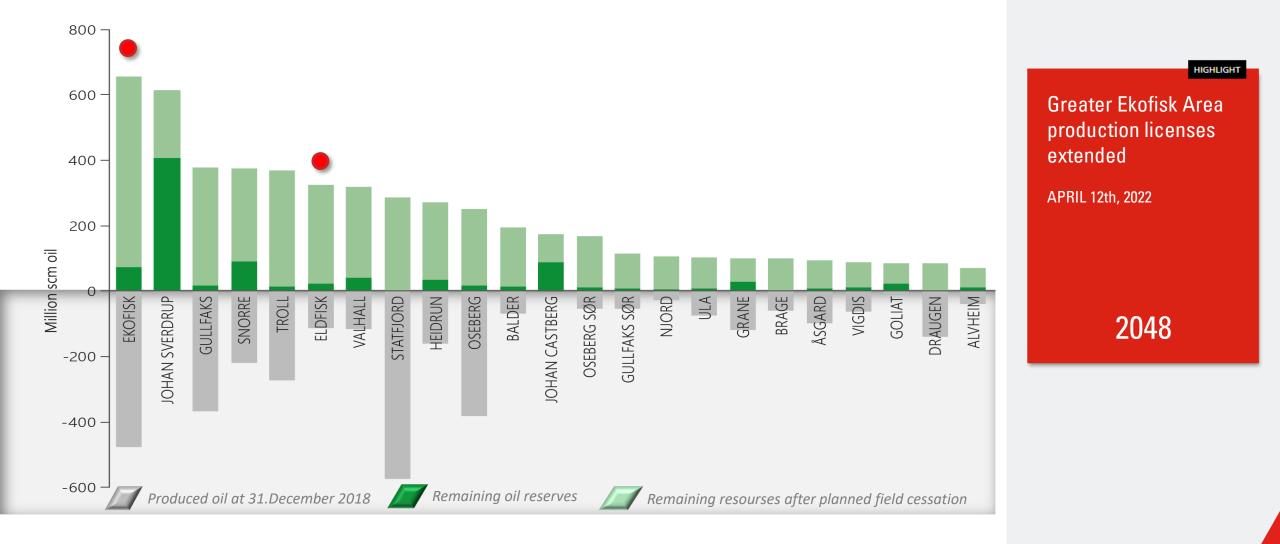


Norway's Asset Portfolio



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Distribution of Oil Reserves and Resources



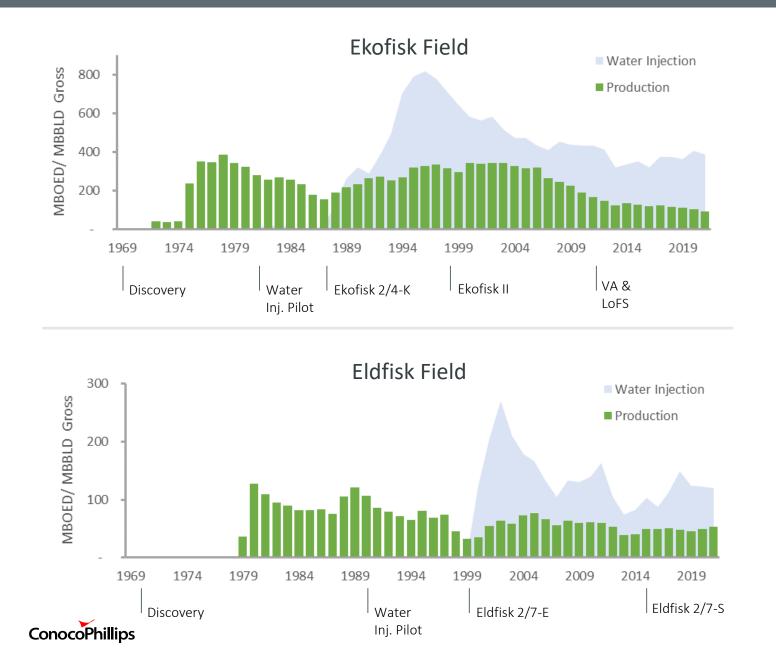
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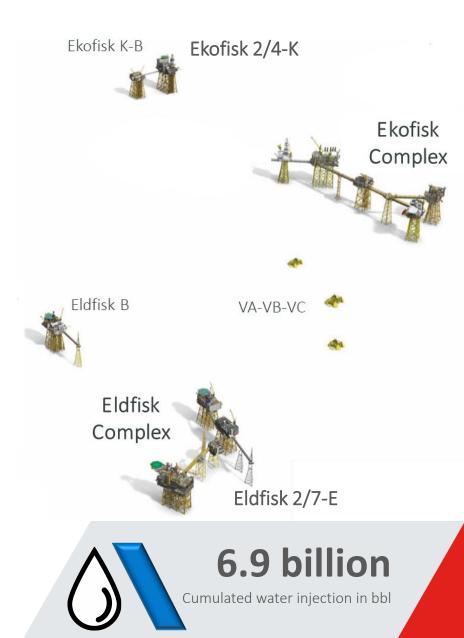
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Ekofisk - the Pioneer in the North Sea



Two Injection Centers and Pipelines to connect the Fields





Seabox[™] fundamentals

OPPORTUNITY TO REDUCE COST AND GHG EMISSIONS

- Subsea water treatment solution
- Zero hazardous discharge
- Energy efficient and low maintenance



Disinfect Raw Seawater

- Electrochlorinator (EC) produces hypochlorite for primary disinfection
- Hydroxyl Radical Generator (HRG) produces oxidizing hydroxyl radicals for secondary disinfection

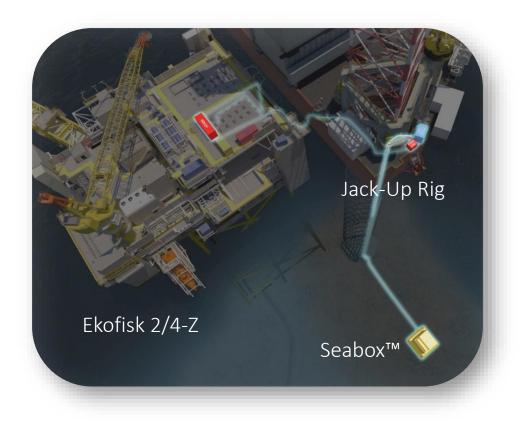
Remove Particles

- Still room gravimetric particle settlement and prolonged chlorine disinfection
- Particle settlement tray



- Capacity: 40,000 BWPD
- Weight: 80 tonnes

Ekofisk Pilot of Seabox™



Purpose

Find a flexible and cost- efficient water injection solution for new developments

Key Objective

- Verify operational functionality and regularity
 - Ease of installation and retrieval
 - Particle removal efficiency
 - Disinfection efficiency
- Determine short-term reservoir effects
 - Reservoir injectivity (plugging tendencies)



Ekofisk Pilot of Seabox[™] | Execution

- Pilot executed safely according to schedule
- 6 months water injection and well produced back for investigation
- Seabox[™] Unit processed **12,000,000** barrels of water
- 500,000 barrels of water were injected in well
- **12,500** barrels of fluid was produced back
- Thorough data acquisition program during pilot





- Seabox installation and retrieval operations were successful
- No deterioration of injectivity into the reservoir was observed
- Flowback analysis concluded no or very limited H2S bio-generation



Challenges

- Descaling mechanism (polar reverse) failed during commissioning
- The electro-chlorination cells did not achieve expected efficiency
- Hydroxyl radical generator (HRG) failed



Ekofisk R&D Pilot with Seabox[™] | Summary



- Seabox has the potential to deliver acceptable water quality for injection in the Ekofisk field
- No short-term negative impact to reservoir souring or loss of injectivity was observed
- 4-years maintenance-free design life not confirmed.
 Optimization of several components of Seabox[™] was identified during the test
- Technology limited to wells with tubing metallurgy that can withstand the increased corrosion potential



Seabox[™] | one potential building block in the Future

SEABOXTM

Potential cost-efficient water injection treatment module

- Subsea, localized where needed
- Energy efficient
- Low complexity



SUBSEA PUMP

High-pressure water injection pumps

- Ongoing JIP
- Omnirise HydroMag[™] Subsea Pumping System



GREEN POWER

Power required for water injection

- Commitment to sustainable reduce GHG emissions
- Energy efficient solutions
- Local wind turbine study ongoing



