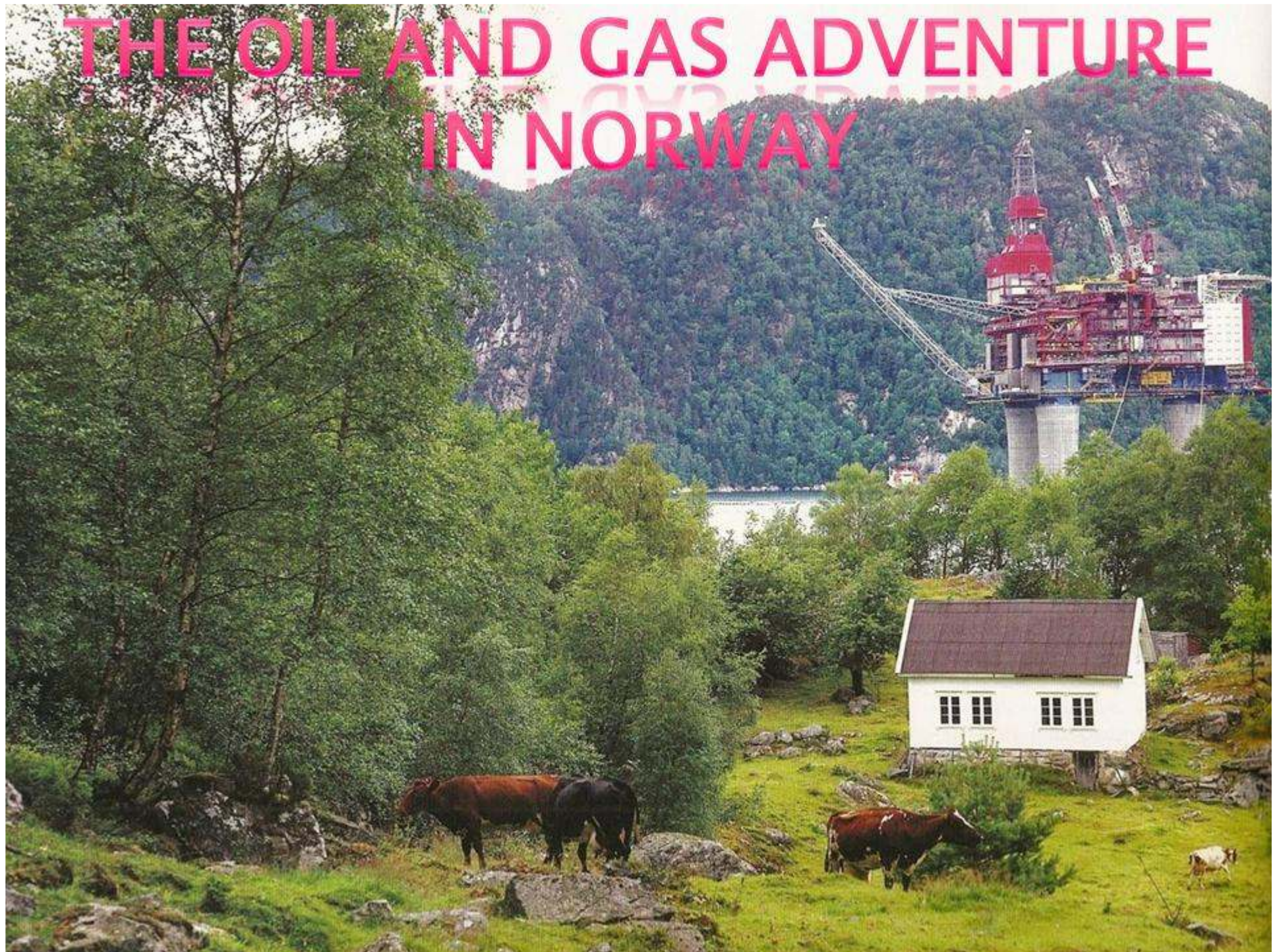


# THE OIL AND GAS ADVENTURE IN NORWAY





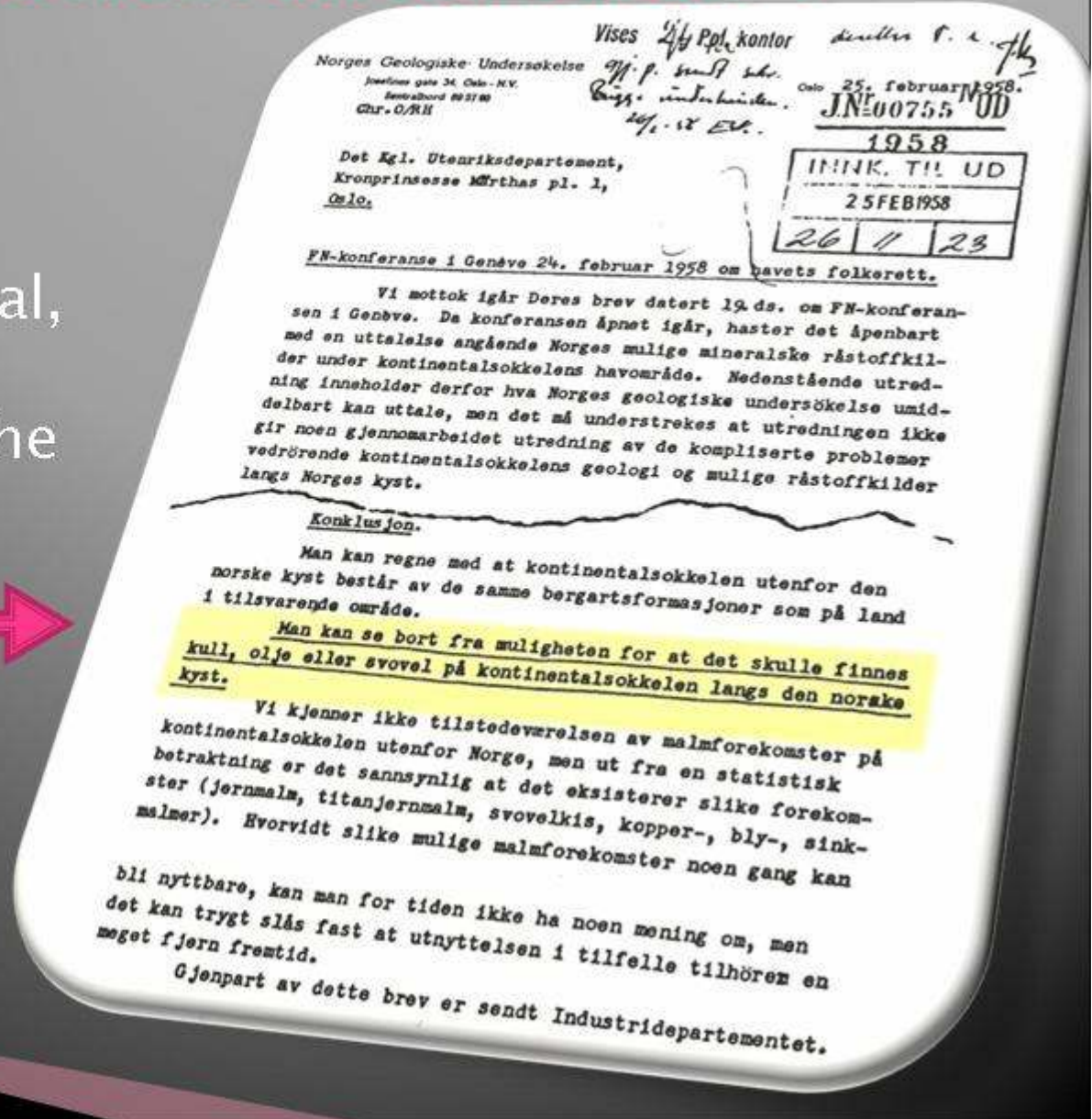
# The Start of the Oil and Gas adventure in Norway!

- Company started looking for oil and gas in 1965
- They almost gave up
- 1969: Oil and gas discovery in the North Sea
  - ➔ The Captain bathed in oil and said “Merry Christmas”
- Philips Petroleum – Ekofisk



# Oil on the continental shelf?

One can ignore the possibility that it is coal, oil or sulfur on the continental shelf off the Norwegian coast





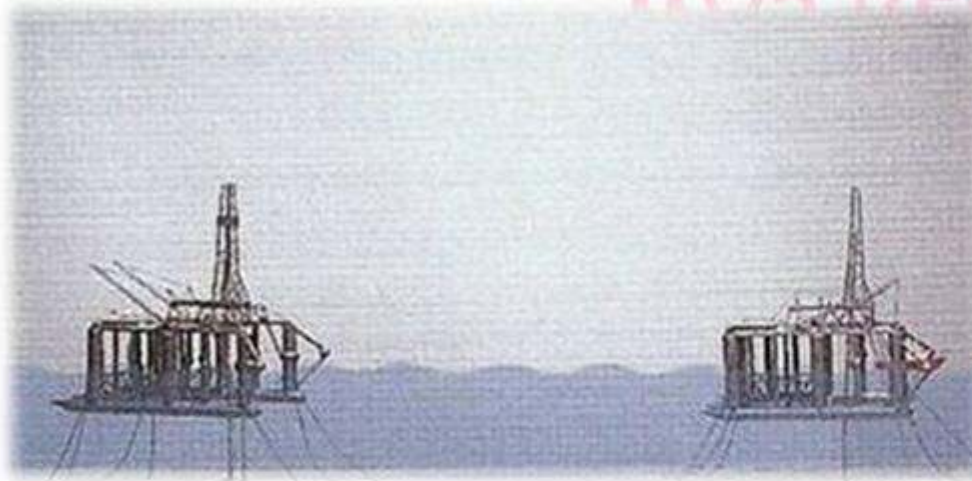
What should one use to pick up the oil?  
Drillships was the solution!



The North Sea oil industry opened up to new occupation getting when traditional industries had to be lost. The old whaling ship "Torshøvdi" was built to a drillingship "Drillship"



# AFTER DRILLING SHIPS, THE PLATFORM WAS READY!



➤ From steel to concrete platform

➤ Oil platforms withstand hard weather

➤ “Ocean Traveler” – the first platform on the Norwegian continental shelf

➤ Large development over a short time

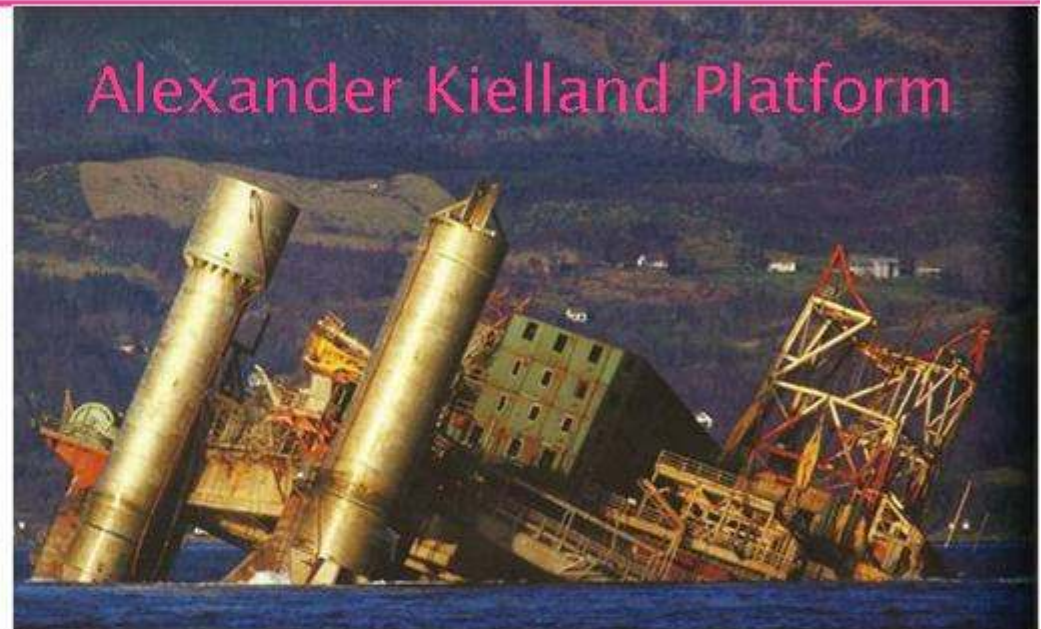
The platforms got bigger, better and safer!





# What happened? Had the development gone to fast?

- 27. March 1980
- 123 died, (most people from Rogaland)
- What went wrong with the technology?
- Welding technology



# Strong people from Karmoy!

Out on the rigs went Karmoy-people to be strong, and had words for him that they would be more than happy to show theirs strength. When a Karmoy-man came out on a rig for the first time, he was often put to a test.

- Are you from Karmoy?
- Yes
- You are both strength, then?
- Yes
- Can you lift the cement bag over your head?
- No problem!

With a solid grip take the Karmoy-man the backpack, full of dry cement and lift it over his head. He teaches with hands on each end, so that the backpack has a small bend down in the middle, just above the man`s head. While he stands that, another gay sneak up on the back, and with a knife he makes a fine cut on the bottom of the bag...

Strength as the concrete – that`s the Karmoy people!





# What did the oil and gas discovery do for Norway?

- ▶ Large wealth
- ▶ Norway is debt-free
- ▶ People got good jobs and got good economy
- ▶ Oil and gas put Norway on the world map!





## What did the oil and gas discovery do for Haugalandet and Rogaland?

- ▶ Jobs
- ▶ Development
- ▶ Natural Gas
- ▶ Stavanger – oil capital
- ▶ Easy access to the North Sea
- ▶ Offices of the Norwegian Petroleum Directorate and Statoil

Haugalandet

Rogaland



A symbol on the  
“capital” Stavanger...

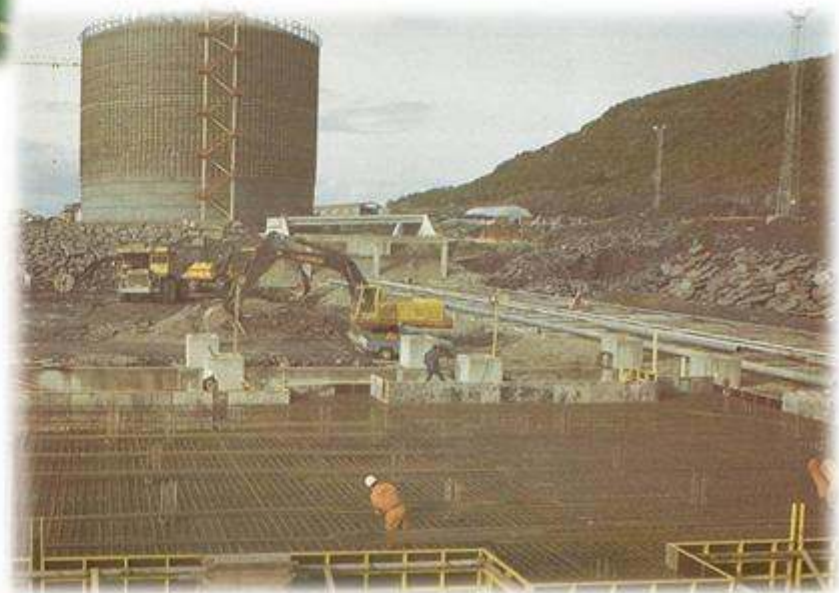






KÅRSTØ!

- ❑ Kårstø was built 25. July 1985
- ❑ Kårstø was added to Tysvær because of..
- ❑ Third largest in the world.
- ❑ Europe`s biggest export facility for liquefied petroleum gas





- Gassco was established 14. May 2001
- 1. January 2002 – Gassco took over responsibility for operating the transport of all gas from the Norwegian continental shelf
- Gassco has a central role in the further development of gas transport
- Gassco will always run the company in an ethical, sustainable and socially responsible manner

# Gassco



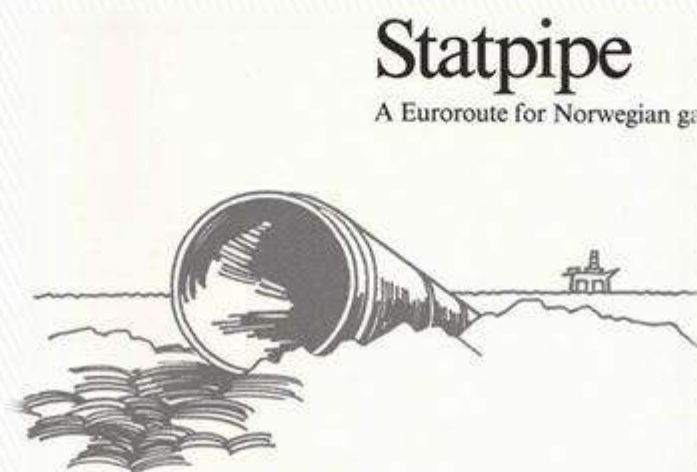
# StatoilHydro a Norwegian oil Company!

- Established on 1. January 2007 after a merger between Statoil and Hydro
- StatoilHydro is an international energy company based in Norway (Stavanger)
- Approximately 29 500 employees in 40 countries
- Strong commitment to development of new energy
- Production at over 1,7 million barrels each day!

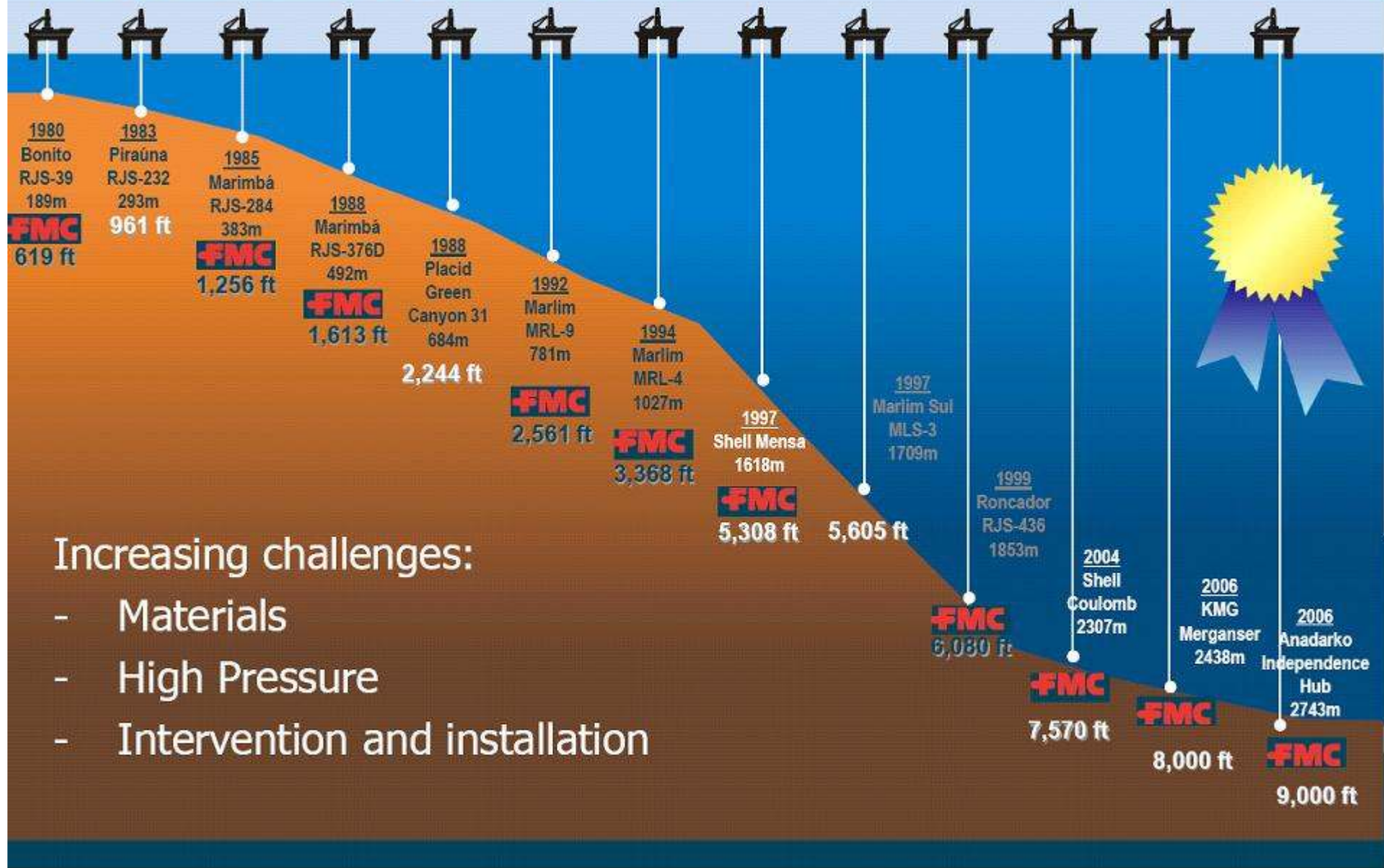


# Oil “The black Gold”

- ▶ Norway earns huge sums in Oil and Gas
- ▶ On a day: 700 million – 1 billion
- ▶ Norway is 100% to be trusted when it comes to oil and gas delivery



# Deeper and deeper and.....



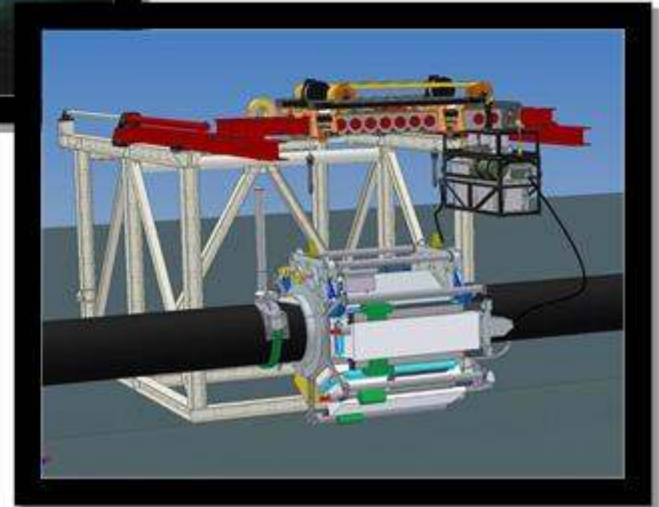
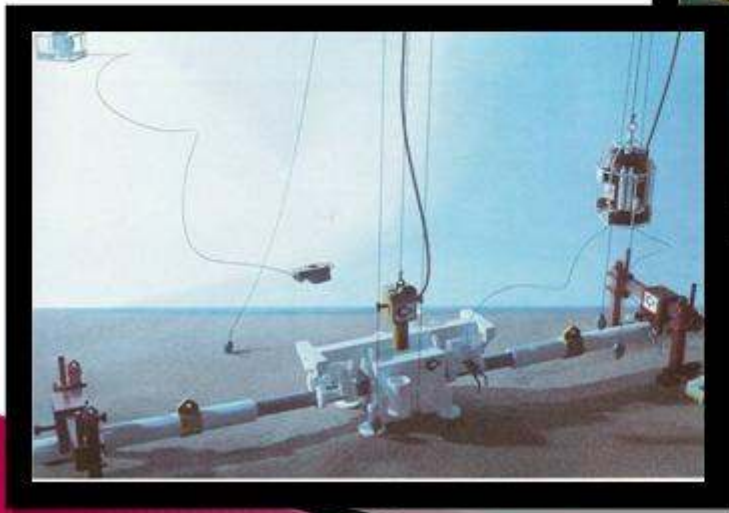
## Increasing challenges:

- Materials
- High Pressure
- Intervention and installation



# Today's technology: Pipeline Repair System

All operations performed diving resolved such as the removal of concrete, cutting of pipes, fitting, welding and drilling



# Snøhvit and Ormen Lange



- Ormen Lange is a natural gas field on the Norwegian continental shelf
- Ormen Lange is Norway's second largest gas field
- Ormen Lange field was discovered by Hydro in 1997
- The field is located at 800–1100 meters deep. Water depth did that expansion was not complicated and it required the development of new technology

➤ Snøhvit is the first expansion not in the Barents Sea without installations on the sea surface

➤ The production facility is located on the seabed, between 250 and 345 meters below sea level

➤ total of 20 wells drilled





Made by Elisabeth  
Langebro and Solveig  
Brekke