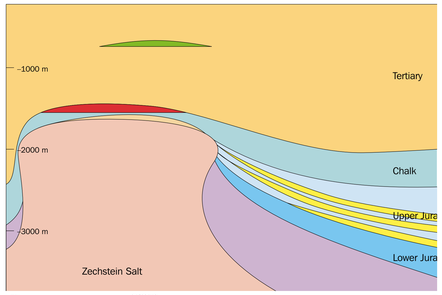
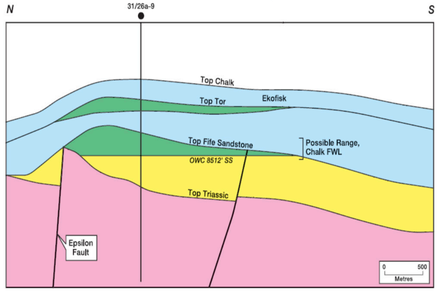
The Chalk Play in the DEFAB area: more pearls yet to be found?

Proven trap types in the North Sea Chalk



type I - salt diapir trap
Hanze field (NL)

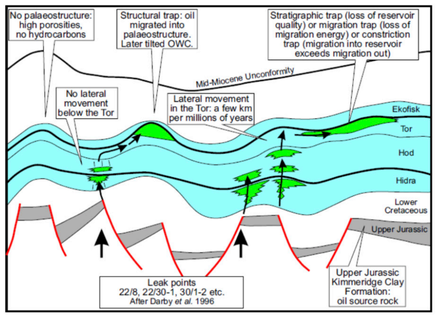
Fields	F2-A-Hanze, F17-10, many fields in UK / DK
Reservoir	Danian and/or Maastrichtian Chalk
Seal	Tertiary shales
Source	Jurassic Posidonia Shale



type II - structural trap
Fife field (UK)

Fields	Fife, Flora (UK)
Reservoir	Maastrichtian Chalk
Seal	Danian Chalk
Source	Jurassic source rocks

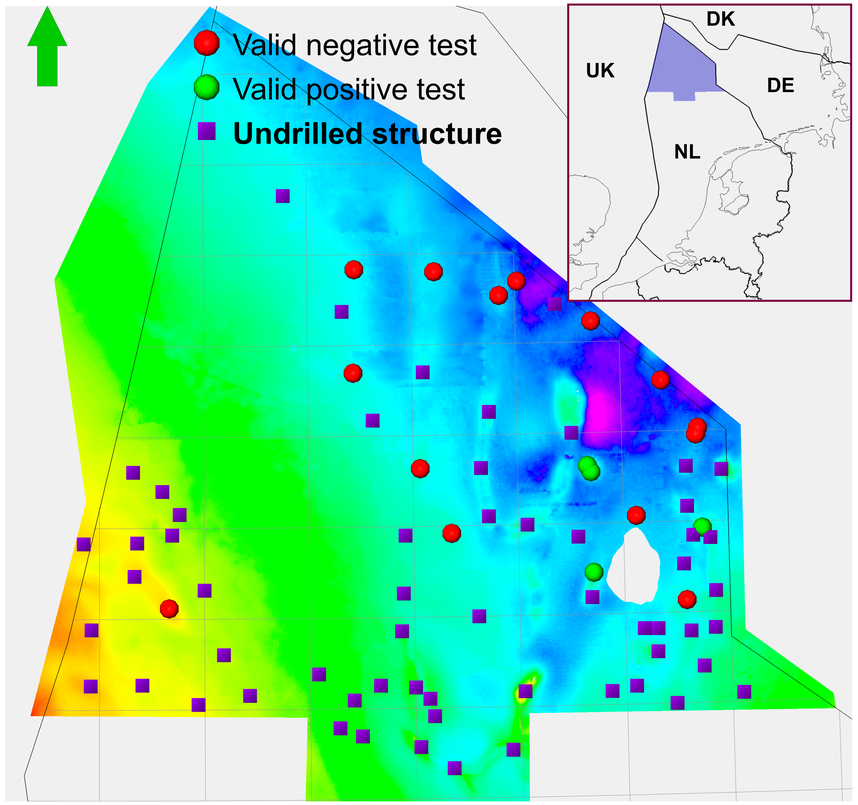
figure from Megson and Hardman, 2001



type III - strat trap
Halfdan field (DK)

Fields	Halfdan (DK)
Reservoir	Maastrichtian Chalk
Seal	Danian Chalk
Source	Jurassic source rocks

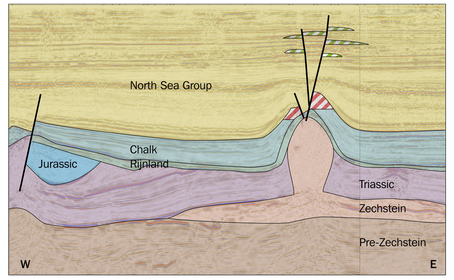
figure from Megson and Hardman, 2001



A proven yet under-explored play

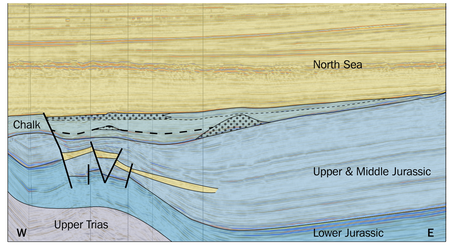
- Oil production since 2001 (Hanze field), recent discovery (F17-10)
- > 55 untested closures, > 30 in open acreage
- STOIIP from 10 – 300 MMbbls
- Many diapir traps undrilled
- Potential for intra-Chalk structural or stratigraphic traps (Fife or Halfdan analogs)

Chalk leads in DEFAB just a few examples



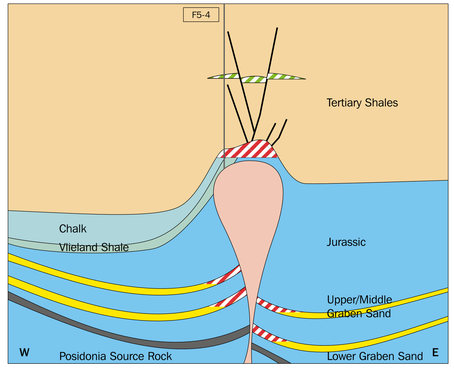
B16-Amethyst

Trap	Large faulted / divided salt diapir closure with multiple targets, shallow gas above
Reservoir	Danian and/or Maastrichtian Chalk
Seal	Tertiary shales
Source	Jurassic Kimmeridge Clay, Scremerston coals



F5-1 updip

Trap	Structural trap with potential for internal strat trap in Chalk, multiple targets.
Reservoir	Danian and/or Maastrichtian Chalk
Seal	Tertiary shales
Source	Jurassic Posidonia Shale, Westphalian coals



F5-Kingfisher

Trap	Salt diapir closure with multiple targets, shallow gas above
Reservoir	Danian and/or Maastrichtian Chalk
Seal	Tertiary shales
Source	Jurassic Posidonia Shale, Westphalian coals