WELLTUE

STRATIGRAPHICAL AND RESERVOIR CONCLUSIONS

ON THE SECTION DRILLED IN WELL NJØRD

10/8-1x

Based on paleontological, palynological, studies and electrical correlations with 9/12 well the final stratigraphical breakdown of the well is as follows.

- 105 (sea floor to 569 m): Quaternary - Pliocene

Sand and gravels with dark shale intercalations and shell debris - glauconite.

- 569 - 728 m

: Paleocene - Eocene

Sandstones, beige, fine, carbonated - Intercalations of chalky sandy limestones.

- 728 - 836 m

: Danian

Chalk limestone packstone to wackstone cherty sometimes silicified.

- 837 - 1173 m

: <u>Upper - Cretaceous</u> <u>Cenomanian - Maestrichtian</u>

Chalk limestone (mudstone to wackstone) white cherty, glauconitic - Interbeds of green and brown marls at the base.

- 1173 - 1368 m

: Lower Cretaceous Valanginian - Albian

Shale: dark grey, silty, intercalations of brown and green marls and stringers of buff pyritic dolomite.

- 1368 1504 m
- : <u>Jurassic</u>

Oxfordian - Kimmeridgian

Silty shale, brown to black, pyritic.

- 1504 1567 m
- : Jurassic (middle)

Sand medium to coarse.

- 1567 2825 m
- : Triassic ? (Barren)

Sandstones: medium to coarse, subangular to subrounded, with silty-sandy shale interbeds some quartzitic levels and volcanic debris, the base of the sequence below 2750 m is more clayish.

- 2825 2861 m
- : Zechstein

Anhydrite, halite and potash salt - this salt is dated zechstein by palynology (further no potash salts are known in Triassic salt beds that exist only in the deepest part of triassic basins).

the lack of structuration below the Zechstoin salt was an imperative reason to

## Reservoir conclusions

This well has not given petroleum results, as unfortunately the reservoir encounted at depths and with thicknesses according to the prognosis, are water wet, with relatively low salinity water (45.000 ppm NaCl equivalent) Average porosity is 22 % in the jurassic sandstone with a reservoir thickness of 67 m. Porosities are comprised between 18 and 12 % in the triassic sandstones above 2140 m, dropping to 8 - 10 % below that depth, reservoir thickness averages 950 m in the Triassic section.

No shows were recorded in that well, but very smalls traces of C1 and C2 at the base of the chalk section.