General information

Lithostrat. unit	KLAPPMYSS FM
NPDID lithostrat. unit	80
Level	FORMATION
Lithostrat. unit, parent	SASSENDALEN GP

Level below

Lithostrat. unit

Description

Klappmyss Formation

Name

The formation's name is derived from the seal species Cystophora cristata. The formation corresponds to T1-2 and the lower parts of T1-3 (Andenes and lower Gimsøy formations) of earlier informal terminology.

Well type section

Well 7120/12-2 (Norsk Hydro), coordinates 71°7'30.03"N, 20°48'19.00"E, from 3552 m to 3095 m (Fig 4.42).

Well reference section

Well 7120/9-2 (Norsk Hydro), coordinates 71°29'40.81"N, 20°42'05.38"E, from 4806 to 4245 m (Fig 4.43)

Thickness

457 m in the type well and 561 m in the reference well.

Lithology

Medium to dark grey shales pass upwards into interbedded shales, siltstones and sandstones in the type well. The reference well shows a similar trend, but with more shale throughout.

Basal Stratotype

The base is defined by clear log breaks, with increasing gamma ray, interval transit time and neutron porosity readings. This represents an important sequence boundary throughout the area, reflecting an early Smithian transgressive pulse.

Lateral extent and variation

The formation thickens and fines northwards from the southern margins of the Hammerfest Basin.

Age

Palynofloras suggest a Smithian to Spathian age.

Depositional environment

Marginal to open marine environments are indicated, with renewed northwards coastal progradation following the early Smithian transgression.

Correlation

The unit is equivalent to the Tvillingodden Formation of western Spitsbergen.

Source

- Dalland, A., Worsley, D. and Ofstad, K. (eds.) 1988: A lithostratigraphic scheme for the Mesozoic and Cenozoic succession offshore mid- and northern Norway. NPD-Bulletin No. 4, 65 pp.

Wellbores penetrating

Wellbore name	Wellbore completion date	Top depth [m]	Bottom depth [m]
7120/1-1	15.11.1985	2315	2373
7120/1-1 R	26.12.1985	2315	2373
7120/1-1 R2	21.07.1986	2315	2373
7120/1-3	07.10.2013	2244	2281
7120/1-4 S	03.08.2014	2285	2301
7120/9-2	20.10.1984	4245	4806
7120/12-2	11.09.1981	3095	3552
7120/12-4	16.04.1984	685	992
7121/1-1 R	23.08.1986	2605	2786
7122/7-3	08.01.2006	2044	2212
7122/7-4 S	25.11.2006	2042	2217
7122/7-5	23.12.2006	2126	2228
7122/7-6	04.01.2013	1996	2026
7124/3-1	20.10.1987	2334	2671
7124/4-1 S	12.10.2011	2276	2606
7125/4-1	07.03.2007	1561	1615
7125/4-2	01.12.2008	1683	1750
7128/4-1	26.02.1994	748	1008
7128/6-1	08.11.1991	734	1002
7132/2-2	07.04.2019	1469	1895
7220/11-1	17.10.2014	1895	1898
7220/11-3	02.09.2015	1830	1832
7220/11-3 A	29.09.2015	2013	2064
7220/11-3 AR	10.10.2016	2013	2064
7220/11-4	17.07.2017	1874	1886
7220/11-4 A	28.08.2017	2203	2218
7221/4-1	01.12.2020	1435	1459
7222/1-1	02.08.2016	1969	2075
7222/6-1 S	10.03.2008	2464	2674
7222/11-2	27.02.2014	2858	2918
7223/5-1	14.01.2009	2451	2549
7224/2-1	04.03.2016	2257	2735
7224/7-1	19.06.1988	2222	2663
7225/3-1	25.09.2011	2155	2555
7225/3-2	07.08.2013	2141	2210
7226/2-1	19.07.2008	2325	2930
7226/11-1	11.04.1988	2303	2913
7228/2-1 S	20.12.1989	3574	3984

7228/7-1 A	02.02.2001	2741	2881
7228/9-1 S	07.05.1990	2097	2638
7229/11-1	15.12.1993	2353	2804
7322/6-1 S	28.05.2021	2391	2447
7324/10-1	19.08.1989	2272	2512
7325/1-1	21.07.2014	2430	2758
7335/3-1	15.06.2019	1618	3060

Wellbores with cores

Wellbore name	Wellbore completion date	Core length [m]
7122/7-4 S	25.11.2006	11
7220/11-3	02.09.2015	2
7220/11-3 A	29.09.2015	49
7226/2-1	19.07.2008	4
7228/7-1 A	02.02.2001	28