



General information

Lithostrat. unit	SNADD FM
NPDID lithostrat. unit	150
Level	FORMATION
Lithostrat. unit, parent	STORFJORDEN SUBGP

Level below

Lithostrat. unit

Description

Snadd Formation

Name

From the seal species *Pusa hispida*. The present formation corresponds to unit T1-4 or Aun Formation of earlier informal terminology.

Well type section

Well [7120/12-2](#) (Norsk Hydro), coordinates 71°07'30.03 "N, 20°48'19.0"E, from 2927 m to 2354 m ([Fig 4.44](#)).

Well reference sections

Well [7120/12-1](#) (Norsk Hydro), coordinates 71°06'48.7"N, 20°45'20.1"E, from 3474 m to 2535 m.

Well [7120/9-2](#) (Norsk Hydro), coordinates 71°29'40.81"N, 20°42'05.38"E, from 3962 m to 2552 m ([Fig 4.45](#)).

Thickness

The formation thins from 1410 m in [7120/9-2](#) to 944 m in [7120/12-1](#). An apparently anomalous thin development of 573 m in [7120/12-2](#) reflects faulting out of approximately 400 m of the middle and upper parts of the unit.

Lithology

Basal grey shales coarsen up into shales with interbeds of grey siltstones and sandstones. Limestones and calcareous interbeds are relatively common in the lower and middle parts of the unit, while thin coaly lenses are developed locally further up. Distinctive dusky red-brown shales occur near the top of the unit. Lateral and vertical lithological variations may provide the basis for 2 to 4 member subdivisions or for the establishment of several formations.

Basal Stratotype

The base represents a clear log break at the base of a 60 m shale interval above the mixed lithologies of the underlying unit. This is marked on logs by a sharp increase to a more uniform response in gamma ray, interval transit time and neutron porosity readings.

Lateral extent and variation

High rates of deposition occurred throughout the area and there was little differentiation between earlier negative and positive structural elements. The unit contrasts with under- and overlying sequences in terms of palaeogeographic controls on sedimentation



patterns, perhaps reflecting updoming of northern shelf margins.

Age

A Ladinian to early Norian age is suggested. Correlations around the Ladinian/Carnian transition suggest earlier deposition of coarse elastics in central than in southern parts of the Hammerfest Basin.

Depositional environment

The Ladinian sequence represents relatively distal marine environments in all wells, following a major transgressive pulse which submerged all structural highs and platform areas in the region. Input of storm-derived silts and sands from southern sources is indicated. The Carnian is marked by large-scale progradation of deltaic systems over the entire region.

Correlation

The Snadd Formation shows great similarities in age and development to the lower and middle parts of the [Kapp Toscana Group](#) of Svalbard (the Tschermafjellet and De Geerdalen formations).

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	1106	2285
7120/1-1 R	26.12.1985	1106	2285
7120/1-1 R2	21.07.1986	1106	2285
7120/1-3	07.10.2013	1101	2203
7120/1-4 S	03.08.2014	733	2274
7120/1-5	07.05.2017	686	2240
7120/2-1	29.10.1985	613	1933
7120/2-3 S	09.07.2011	2563	2625
7120/6-2 S	22.07.2007	3145	3242
7120/9-1	26.09.1982	2173	2300
7120/9-2	20.10.1984	2552	3962
7120/12-1	12.10.1980	2535	3474
7120/12-2	11.09.1981	2354	2927
7120/12-4	16.04.1984	435	485
7120/12-5	03.01.2011	2582	3572
7121/1-1	13.11.1985	792	916
7121/1-1 R	23.08.1986	792	2210
7121/5-1	28.09.1985	2793	3200
7121/5-3	09.03.2001	2223	2265



7121/8-1	15.07.2017	2211	2260
7122/4-1	13.01.1992	2635	3015
7122/6-1	11.11.1987	2191	2707
7122/6-2	19.09.2006	2202	3006
7122/7-1	05.10.2000	1202	1524
7122/7-2	19.10.2001	1303	1418
7122/7-3	08.01.2006	1180	1808
7122/7-4 S	25.11.2006	1244	1794
7122/7-5	23.12.2006	1281	1868
7122/7-5 A	13.01.2007	1286	1844
7122/7-6	04.01.2013	1208	1754
7122/7-7 S	26.12.2018	1306	1330
7122/10-1 S	28.09.2017	697	1425
7123/4-1 A	14.05.2008	2259	2855
7123/4-1 S	21.04.2008	2266	2920
7124/3-1	20.10.1987	1438	1893
7124/4-1 S	12.10.2011	1330	1888
7125/1-1	30.12.1988	1612	2105
7125/4-1	07.03.2007	1002	1206
7125/4-2	01.12.2008	1026	1299
7128/4-1	26.02.1994	494	504
7130/4-1	08.01.2016	626	663
7130/4-1	08.01.2016	690	727
7130/4-1	08.01.2016	747	754
7131/4-1	13.05.2005	960	1172
7132/2-1	09.02.2019	779	883
7132/2-2	07.04.2019	878	1083
7219/9-1	25.02.1988	2877	4300
7219/12-1	19.01.2017	2169	2500
7220/2-1	10.10.2014	1538	1594
7220/4-1	25.02.2014	2990	3240
7220/6-1	29.03.2005	476	1138
7220/6-2	04.11.2015	510	985
7220/6-2 R	22.11.2016	510	1060
7220/6-3	05.10.2017	509	750
7220/7-2 S	16.12.2013	1769	1855
7220/8-1	02.05.2011	2122	2222
7220/10-1	16.10.2012	2303	2405
7220/11-1	17.10.2014	580	1852
7220/11-2	03.05.2015	623	1854
7220/11-2 A	14.06.2015	623	1927



7220/11-3	02.09.2015	601	1815
7220/11-3 A	29.09.2015	601	1982
7220/11-3 AR	10.10.2016	601	1982
7220/11-4	17.07.2017	589	1842
7220/11-4 A	28.08.2017	589	2165
7220/11-5 S	08.10.2018	608	1904
7221/4-1	01.12.2020	504	882
7221/12-1	25.05.2018	570	724
7222/1-1	02.08.2016	539	1464
7222/6-1 S	10.03.2008	484	1890
7222/11-1	04.11.2008	636	2007
7222/11-2	27.02.2014	672	2023
7223/5-1	14.01.2009	585	1856
7224/2-1	04.03.2016	783	1720
7224/6-1	21.08.2008	1166	2010
7224/7-1	19.06.1988	1028	1642
7225/3-1	25.09.2011	804	1146
7225/3-2	07.08.2013	807	1168
7226/2-1	19.07.2008	1052	1694
7226/11-1	11.04.1988	1296	1878
7227/10-1	10.11.2014	1909	2785
7228/1-1	26.04.2012	1137	1513
7228/2-1 S	20.12.1989	1523	2438
7228/7-1 A	02.02.2001	1642	2255
7228/7-1 B	10.02.2001	1642	2227
7228/7-1 S	08.01.2001	1598	1712
7228/9-1 S	07.05.1990	1232	1595
7229/11-1	15.12.1993	1453	1843
7234/6-1	19.07.2021	760	1202
7317/9-1	07.10.2017	1219	1500
7321/4-1	01.10.2018	1506	1630
7321/7-1	22.10.1988	2207	3550
7321/8-1	03.09.1987	1626	3362
7321/8-2 S	01.07.2020	1788	1899
7321/9-1	28.11.1988	1572	1800
7322/6-1 S	28.05.2021	776	1634
7324/2-1	18.06.2014	894	1090
7324/3-1	21.11.2018	938	1709
7324/6-1	31.07.2019	854	1600
7324/7-1 S	03.11.2013	896	2063
7324/7-2	06.07.2014	839	1730



7324/8-1	17.09.2013	772	930
7324/8-2	16.05.2015	780	840
7324/9-1	07.08.2014	763	1100
7324/10-1	19.08.1989	606	1607
7325/1-1	21.07.2014	952	1888
7325/4-1	03.08.2017	840	1210
7335/3-1	15.06.2019	801	1162
7435/12-1	01.09.2017	780	1168

Wellbores with cores

Wellbore name	Wellbore completion date	Core length [m]
7121/1-1	13.11.1985	5
7121/5-1	28.09.1985	21
7122/6-2	19.09.2006	55
7122/7-3	08.01.2006	2
7122/7-4 S	25.11.2006	0
7123/4-1 A	14.05.2008	27
7123/4-1 S	21.04.2008	47
7131/4-1	13.05.2005	48
7220/6-2	04.11.2015	26
7220/6-2 R	22.11.2016	3
7220/11-3	02.09.2015	1
7221/12-1	25.05.2018	52
7222/6-1 S	10.03.2008	22
7222/11-1	04.11.2008	42
7223/5-1	14.01.2009	14
7226/2-1	19.07.2008	53
7228/2-1 S	20.12.1989	6
7228/7-1 A	02.02.2001	43
7321/7-1	22.10.1988	9
7321/8-1	03.09.1987	15
7324/3-1	21.11.2018	112
7324/6-1	31.07.2019	116
7324/10-1	19.08.1989	4