



General information

Lithostrat. unit	KNURR FM
NPDID lithostrat. unit	82
Level	FORMATION
Lithostrat. unit, parent	ADVENTDALEN GP

Level below

Lithostrat. unit

Description

Knurr Formation

Name

From the fish species *Eutrigla gurnardus* (grey gurnard). The formation corresponds to T4-1 or Slettnes Formation of earlier informal terminology.

Well type

Well [7119/12-1](#) (Statoil), coordinates 71°06'08.00"N, 19°47'40.29"E, from 2497 m to 2441 m ([Fig 4.51](#)).

Well reference section

Well [7120/12-1](#) (Norsk Hydro), coordinates 71°06'48.7"N, 20°45'20.1"E, from 1660 to 1375 m. A core was taken between 1535 and 1546 m in this well ([Fig 4.50](#)).

Thickness

56 m in the type well and 285 m in the reference well.

Lithology

In the type well the formation consists of dark grey to greyish brown claystone with thin limestone and dolomite interbeds. Thin sandstones are also seen in the unit's lower parts, but these disappear laterally into the Hammerfest Basin. Red to yellow brown claystone generally occurs in the upper parts of the formation.

Basal Stratotype

The base is defined by decreasing gamma ray response and by the sonic log showing decreasing interval transit time. In the type well the density log response shows a slight decrease in an otherwise increasing trend across the boundary. However, the general pattern in most wells is an increase in the density log response accompanying the sonic log response. The base is marked by a thin sandy limestone in the reference well.

Lateral extent and variation

Present data suggest similar lithologies in all wells which penetrate the formation. The sand content is somewhat higher close to the Troms-Finnmark Fault Complex (e.g. well [7119/12-1](#)). Most complete sequences are seen along basin margins.

Age

Dinoflagellates and foraminifera suggest a Ryazanian/Valanginian to early Barremian age.

Depositional environment

The formation was deposited in open and generally distal marine environments with local restricted bottom conditions.

Correlation

The formation is a lateral equivalent of the dark shale dominated Rurikfjellet Member of the Janusfjellet Formation on Svalbard.

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]
7018/5-1	27.11.2020	635	698
7019/1-1	03.12.2000	2127	2345
7119/9-1	25.09.1984	2648	2702
7119/12-1	10.10.1980	2441	2498
7119/12-2	26.06.1981	1087	1163
7119/12-3	12.09.1983	2953	3026
7119/12-4	17.02.2011	1955	2058
7120/1-2	28.03.1989	1878	1984
7120/2-2	23.03.1991	2120	2503
7120/2-3 S	09.07.2011	1932	2000
7120/5-1	06.06.1985	2205	2248
7120/6-1	02.05.1985	2176	2285
7120/6-2 S	22.07.2007	2351	2470
7120/6-3 S	30.11.2012	2665	2811
7120/7-2	21.08.1983	1987	2017
7120/7-3	09.06.1984	2679	2759
7120/8-1	10.09.1981	1942	1990
7120/8-2	29.07.1982	1869	1955
7120/8-3	24.05.1983	2055	2104
7120/8-4	10.12.2007	2142	2179
7120/9-1	26.09.1982	1761	1813
7120/9-2	20.10.1984	1871	1906
7120/10-1	08.09.1984	1353	1394
7120/10-2	05.09.1990	1922	2303
7120/12-1	12.10.1980	1375	1660
7120/12-2	11.09.1981	1455	1700
7120/12-3	05.05.1983	1778	1946
7120/12-5	03.01.2011	1828	1963
7121/1-2 S	02.03.2019	2733	3061
7121/4-1	27.10.1984	2136	2237
7121/4-2	14.04.1985	2226	2338
7121/5-1	28.09.1985	2236	2292
7121/5-2	06.07.1986	2079	2260
7121/5-3	09.03.2001	1790	1832
7121/7-1	05.08.1984	1732	1793
7121/7-2	12.08.1986	1728	1806
7121/8-1	15.07.2017	1766	1822



7121/9-1	29.11.2011	1809	2081
7122/2-1	11.11.1992	1832	1955
7122/4-1	13.01.1992	2112	2225
7122/6-1	11.11.1987	1884	1931
7122/6-2	19.09.2006	1875	1936
7122/6-3 S	10.10.2021	1767	1834
7122/7-1	05.10.2000	984	1022
7122/7-2	19.10.2001	986	1021
7122/7-3	08.01.2006	960	1018
7122/7-4 S	25.11.2006	976	1075
7122/7-5	23.12.2006	998	1083
7122/7-5 A	13.01.2007	998	1080
7122/7-6	04.01.2013	980	1046
7122/7-7 S	26.12.2018	1050	1109
7122/10-1 S	28.09.2017	475	544
7123/4-1 A	14.05.2008	1943	2001
7123/4-1 S	21.04.2008	1943	2005
7124/4-1 S	12.10.2011	1166	1209
7125/1-1	30.12.1988	1318	1344
7125/4-1	07.03.2007	779	817
7125/4-2	01.12.2008	844	891
7125/4-3	07.09.2014	880	983
7130/4-1	08.01.2016	561	575
7131/4-1	13.05.2005	824	839
7219/8-1 S	26.12.1992	2494	3472
7219/8-2	30.09.2013	2723	2789
7219/9-1	25.02.1988	1836	1893
7219/9-2	02.07.2017	2027	2230
7219/12-3 S	17.01.2018	2128	2169
7220/4-1	25.02.2014	2185	2267
7220/5-1	24.03.2012	1238	1296
7220/5-2	08.07.2013	1254	1391
7220/7-1	24.01.2012	1732	1740
7220/7-3 S	05.05.2014	1417	1426
7220/7-4	14.03.2021	1707	1762
7220/8-1	02.05.2011	1245	1252
7224/6-1	21.08.2008	890	906
7224/7-1	19.06.1988	762	792
7225/3-1	25.09.2011	636	670
7225/3-2	07.08.2013	639	674
7226/2-1	19.07.2008	727	754



7226/11-1	11.04.1988	1141	1147
7228/1-1	26.04.2012	843	881
7228/2-1 S	20.12.1989	1110	1168
7228/7-1 A	02.02.2001	1300	1314
7228/7-1 B	10.02.2001	1300	1314
7228/7-1 S	08.01.2001	1300	1314
7229/11-1	15.12.1993	1200	1212
7317/9-1	07.10.2017	715	793
7318/12-2	22.03.2017	2550	2864
7321/4-1	01.10.2018	970	1120
7321/7-1	22.10.1988	1892	1918
7321/8-1	03.09.1987	1352	1383
7321/8-2 S	01.07.2020	1502	1532
7321/9-1	28.11.1988	986	1317
7322/6-1 S	28.05.2021	643	651
7324/2-1	18.06.2014	737	755
7324/3-1	21.11.2018	752	779
7324/6-1	31.07.2019	702	714
7324/7-1 S	03.11.2013	688	697
7324/7-2	06.07.2014	610	630
7324/7-3 S	14.04.2016	607	625
7324/8-1	17.09.2013	580	590
7324/8-2	16.05.2015	602	613
7324/9-1	07.08.2014	669	671
7324/10-1	19.08.1989	553	561
7325/1-1	21.07.2014	761	776
7325/4-1	03.08.2017	680	692

Wellbores with cores

Wellbore name	Wellbore completion date	Core length [m]
7019/1-1	03.12.2000	14
7120/1-2	28.03.1989	11
7120/2-2	23.03.1991	30
7120/10-2	05.09.1990	9
7120/12-1	12.10.1980	11
7121/1-2 S	02.03.2019	50
7122/2-1	11.11.1992	99
7220/5-2	08.07.2013	45
7321/7-1	22.10.1988	3