



General information

Lithostrat. unit	FENSFJORD FM
NPDID lithostrat. unit	40
Level	FORMATION
Lithostrat. unit, parent	VIKING GP

Level below

Lithostrat. unit

Description

Fensfjord Formation

Name

After a fjord on the west coast of Norway, adjacent to the type area in Quadrant 31.

Well type section

Norwegian well [31/2-1](#) (Shell) from 1594.5 m to 1741.5 m, coord N 60°46 '19.16", E 03°33' 15.87", ([Fig 3.21](#)).

Well reference section

None at present.

Lithology

The formation consists of sandstones, grey-brown in colour, fine to medium grained, well sorted and moderately friable to consolidated. Calcite cemented sandstones occur in bands containing common bioclastic material. In the type well it is often carbonaceous and occasionally micaceous. Minor shale intercalations occur throughout. The formation has a "serrate" log character, composed of 3-5 m thick units arranged in several cycles.

Boundaries

The formation has an overall higher gamma ray intensity and larger FDC-CNL separation than the underlying [Krossfjord Formation](#). The top of the Fensfjord Formation is characterized by a transition in the gamma ray log from a high intensity, serrate log shape to a high intensity but smooth outline in the overlying [Heather Formation](#).

Distribution

The formation has only been clearly recognized in the [Troll Field](#) area.

Age

Callovian.

Depositional environment

The formation was deposited in a coastal shallow marine environment.

Source

- Vollset, J. and Doré, A. G. (eds.) 1984: A revised Triassic and Jurassic lithostratigraphic nomenclature for the Norwegian North Sea. NPD-Bulletin No. 3, 53 pp.



Wellbores penetrating

Wellbore name	Wellbore completion date	Top depth [m]	Bottom depth [m]
30/9-23	21.08.2009	2501	2668
31/2-1	09.11.1979	1595	1742
31/2-1 R	09.11.1981	1596	1743
31/2-2	23.04.1980	1700	1848
31/2-2 R	06.10.1980	1700	1848
31/2-3	20.07.1980	1561	1677
31/2-4 R	06.04.1981	1520	1625
31/2-4 R2	12.11.1982	1520	1625
31/2-5	21.12.1980	1693	1789
31/2-5 R	20.07.1981	1686	1782
31/2-5 R2	22.04.1984	1686	1782
31/2-6	17.10.1981	1673	1760
31/2-8	18.08.1982	2189	2254
31/2-9	01.10.1982	1708	1770
31/2-10	31.10.1982	1793	1833
31/2-11	25.05.1983	1678	1744
31/2-12	09.09.1983	1541	1615
31/2-13 S	15.03.1984	1934	2010
31/2-14	21.06.1984	1685	1725
31/2-15	15.11.1984	1636	1677
31/2-17 A	31.01.1992	1895	1924
31/2-17 S	20.01.1992	2180	2220
31/2-18	07.10.1992	1688	1711
31/2-18 A	17.10.1992	1706	1916
31/2-20 S	08.12.2002	2887	3148
31/2-21 S	04.06.2014	2562	2932
31/2-22 S	03.03.2021	2231	2328
31/3-1	13.10.1983	1516	1668
31/3-2	30.04.1984	1725	1851
31/3-3	18.11.1984	1931	2077
31/3-4	05.01.2014	1850	1996
31/4-2	15.11.1979	2190	2325
31/4-3	11.05.1980	2136	2327
31/4-4	17.02.1981	2482	2527
31/4-5	29.07.1981	2104	2278
31/4-6	20.04.1982	2150	2318



31/4-7	11.09.1984	2026	2102
31/4-8	11.05.1986	2088	2117
31/4-9	07.03.1987	2169	2368
31/4-10	13.12.1995	2168	2218
31/4-11	12.09.2000	2351	2426
31/4-12	14.03.2005	2172	2226
31/5-2	11.11.1983	1674	1826
31/5-2 R	30.08.1984	1674	1826
31/5-3	09.06.1984	1718	1848
31/5-4 S	10.10.1990	1879	1909
31/5-5	11.02.1993	1725	1855
31/5-5 R	27.07.2002	1732	1862
31/5-6	25.07.2000	1955	2056
31/5-7	06.03.2020	2140	2278
31/6-1	28.10.1983	1518	1720
31/6-2	11.12.1983	1642	1875
31/6-2 R	08.09.1984	1642	1875
31/6-3	26.12.1983	1669	1756
31/6-5	21.05.1984	1702	1937
31/6-6	29.07.1984	1719	1947
31/6-8	25.05.1985	1705	1927
31/6-8 R	22.09.1985	1705	1927
31/7-1	22.06.2016	2230	2373
31/7-1 A	14.07.2016	2478	2530
31/7-2 A	27.07.2017	2692	2723
31/7-2 S	08.07.2017	2292	2377
31/7-3 A	18.01.2019	2810	2863
31/7-3 S	16.12.2018	2633	2705
31/8-1	24.07.2011	2367	2498
31/11-1 S	28.06.2021	2615	2678
32/2-1	01.07.2008	1012	1115
32/4-1	04.12.1996	1366	1595
32/4-3 S	26.10.2019	1415	1551
35/9-1	07.05.1989	2037	2099
35/9-1 R	27.07.1989	2037	2099
35/9-2	03.04.1991	2188	2481
35/9-9	18.11.2013	2602	2848
35/9-12 S	26.12.2014	3097	3156
35/9-12 S	26.12.2014	3225	3257
35/11-1	06.08.1984	2113	2180
35/11-4	29.12.1990	2284	2365



35/11-4 R	27.01.1992	2294	2375
35/11-7	29.09.1992	2104	2181
35/11-10	23.06.1997	2275	2385
35/11-10 A	14.07.1997	2682	2824
35/11-17	01.05.2014	2353	2402
35/11-21 A	17.10.2018	2389	2467
35/11-21 S	05.09.2018	2318	2361
35/12-1	24.04.1992	2790	2886
35/12-2	15.07.2009	2100	2159
35/12-3 S	16.02.2011	2164	2269
35/12-3 S	16.02.2011	2340	2594
35/12-4 S	26.06.2011	2527	2683
35/12-5 S	19.06.2015	3100	3194
35/12-6 A	30.06.2018	3157	3218
35/12-6 S	14.06.2018	2997	3037
35/12-7	25.07.2018	2209	2283
36/7-1	07.05.1996	2235	2510
36/7-2	22.09.1997	947	1363

Wellbores with cores

Wellbore name	Wellbore completion date	Core length [m]
31/2-1	09.11.1979	67
31/2-3	20.07.1980	83
31/2-4 R	06.04.1981	96
31/3-1	13.10.1983	82
31/4-2	15.11.1979	17
31/4-3	11.05.1980	32
31/4-4	17.02.1981	18
31/4-5	29.07.1981	86
31/4-6	20.04.1982	63
31/4-7	11.09.1984	55
31/4-9	07.03.1987	53
31/4-10	13.12.1995	42
31/4-11	12.09.2000	65
31/5-5	11.02.1993	32
31/6-1	28.10.1983	82
31/6-3	26.12.1983	25
31/6-5	21.05.1984	19
31/6-6	29.07.1984	54



31/7-1	22.06.2016	19
35/9-1	07.05.1989	31
35/9-2	03.04.1991	134
35/11-4	29.12.1990	36
35/11-10	23.06.1997	40
35/11-17	01.05.2014	44
35/11-21 A	17.10.2018	48
35/12-2	15.07.2009	1
35/12-4 S	26.06.2011	35
35/12-6 S	14.06.2018	24
36/7-1	07.05.1996	179