General information

Lithostrat. unit	KROSSFJORD FM
NPDID lithostrat. unit	87
Level	FORMATION
Lithostrat. unit, parent	VIKING GP

Level below

Lithostrat. unit

Description

Krossfjord 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 1741.5 m to 1880 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, light grey-brown in colour, medium to coarse grained, well sorted, and loose to very friable. Occasionally calcite cemented streaks occur. The lower portion of the Krossfjord Formation is slightly argillaceous and carbonaceous with minor shale intercalations.

Boundaries

In the type well the formation overlies the lower part of the Heather Formation. It has a "blocky" log character and is the first continuous thick sandstone unit above the Brent Group. The base of the formation is shown by the underlying reduction in gamma-ray intensity and FDC-CNL separation. The top is characterized by the change to the serrate gamma ray log motif of the overlying Fensfjord Formation and an overall upward increase in gamma ray intensity.

Distribution

The formation has only been clearly recognized in the Troll Field area.

Age

Bathonian.

Depositonal 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	2678	2717
31/2-1	09.11.1979	1742	1880
31/2-1 R	09.11.1981	1743	1881
31/2-2	23.04.1980	1848	1857
31/2-2 R	06.10.1980	1848	1961
31/2-3	20.07.1980	1677	1755

31/2-4 R	06.04.1981	1625	1710
31/2-4 R2	12.11.1982	1625	1710
31/2-5	21.12.1980	1789	1860
31/2-5 R	20.07.1981	1782	1853
31/2-5 R2	22.04.1984	1782	1853
31/2-8	18.08.1982	2254	2266
31/2-18 A	17.10.1992	1916	2005
31/2-20 S	08.12.2002	3148	3252
31/3-1	13.10.1983	1668	1779
31/3-2	30.04.1984	1851	1929
31/3-3	18.11.1984	2077	2134
31/3-4	05.01.2014	1996	2010
31/4-10	13.12.1995	2270	2278
31/4-11	12.09.2000	2522	2538
31/5-2	11.11.1983	1826	1908
31/5-2 R	30.08.1984	1826	1908
31/5-3	09.06.1984	1848	1905
31/5-5	11.02.1993	1855	1930
31/5-5 R	27.07.2002	1862	1937
31/5-6	25.07.2000	2056	2112
31/5-7	06.03.2020	2278	2382
31/6-1	28.10.1983	1720	1776
31/6-2	11.12.1983	1875	1910
31/6-2 R	08.09.1984	1875	1910
31/6-3	26.12.1983	1756	1932
31/6-5	21.05.1984	1937	1972
31/6-6	29.07.1984	1947	1976
31/6-8	25.05.1985	1927	1965
31/6-8 R	22.09.1985	1927	1965
31/8-1	24.07.2011	2498	2629
31/11-1 S	28.06.2021	2678	2721
32/2-1	01.07.2008	1115	1187
32/4-1	04.12.1996	1598	1645
32/4-3 S	26.10.2019	1551	1645
35/9-1	07.05.1989	2099	2140
35/9-1 R	27.07.1989	2099	2140
35/9-2	03.04.1991	2481	2512
35/9-5	07.02.2010	3376	3531
35/9-9	18.11.2013	2848	2943
35/11-1	06.08.1984	2233	2469
35/12-2	15.07.2009	2232	2237

35/12-3 S	16.02.2011	2594	2716
35/12-5 S	19.06.2015	3230	3289
36/1-4 S	30.01.2022	3097	3130
36/7-1	07.05.1996	2510	2560

Wellbores with cores

Wellbore name	Wellbore completion date	Core length [m]
31/2-4 R	06.04.1981	37
31/5-5	11.02.1993	33
35/9-1	07.05.1989	35
35/9-2	03.04.1991	29