



General information

Lithostrat. unit	LYR FM
NPDID lithostrat. unit	98
Level	FORMATION
Lithostrat. unit, parent	CROMER KNOLL GP

Level below

Lithostrat. unit

Description



Lyr Formation

Name

From the fish species *Pollachius pollachius* (pollack).

Well type section

Well [6506/12-1](#) (Statoil), coordinates 65°10'07.58"N, 06°43'44.07"E, from 3836 m to 3812.5 m ([Fig 4.27](#)). No cores.

Well reference section

Well [6407/1-2](#) (Statoil), coordinates 64°47'50.61"N, 07°02'23.76"E, from 3526 m to 3510 m ([Fig 4.28](#)). No cores.

Thickness

23.5 m in the type well and 16 m in the reference well.

Lithology

The formation consists of light/medium grey to light greyish-green marls with interbedded carbonates.

Basal Stratotype

In the type well the base is defined by a decrease of interval transit times shown by the sonic log. The gamma ray and the resistivity responses also decrease.

The base has been sampled in shallow cores from the eastern part of the Trøndelag Platform (Bugge et al. 1984), but logs and detailed descriptions are not yet available.

Lateral extent and variation

The formation is encountered in all wells on Halten Terrace, but is absent on the Nordland Ridge and on structural highs on the Nordland Ridge and the Trøndelag Platform. The carbonate content is expected to decrease to the west in the Møre and Vøring Basins. The formation consists of very thin limestones with intraformational conglomerates on the eastern part of the Trøndelag Platform (Bugge et al. 1984).

Age

Valanginian to Early Aptian.

Depositional environment

The formation was deposited under open marine conditions.

Correlation

The Lyr Formation is comparable to the Valhall Formation¹¹⁾ (Deegan and Scull, 1977) in the central North Sea. It is also equivalent to the Leira Member on Andøya (Dalland, 1979).

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.

Footnotes

- 1) Åsgard Formation according to Isaksen, D. and Tonstad, K. (eds.) 1989: A revised Cretaceous and Tertiary lithostratigraphic nomenclature for the Norwegian North Sea. NPD-Bulletin No. 5, 59 pp.



Wellbores penetrating

Wellbore name	Wellbore completion date	Top depth [m]	Bottom depth [m]
6306/3-1 S	11.12.2021	2313	2318
6306/6-1	05.07.1994	1100	1137
6306/6-2	17.11.2009	1953	1963
6306/9-1	18.01.2022	797	810
6307/1-1 S	28.12.2018	1809	1845
6406/2-1	09.04.1995	4352	4371
6406/2-1 R	07.01.1996	3450	4369
6406/2-2	27.03.1996	4354	4375
6406/2-2 R	03.03.2006	4348	4369
6406/2-3	15.04.1997	4620	4629
6406/2-4 S	05.04.1997	4372	4388
6406/2-4 SR	15.02.1999	4372	4388
6406/2-5	29.09.1997	4654	4792
6406/2-5 A	23.02.1998	5224	5238
6406/2-6	07.11.1998	4422	4432
6406/2-6 A	06.07.2000	4735	4747
6406/2-6 R	23.05.2000	4423	4433
6406/2-7	26.12.1999	4545	4558
6406/2-8	05.05.2015	4270	4299
6406/2-9 S	15.01.2019	4397	4419
6406/3-4	29.12.1987	3884	3908
6406/3-5	01.06.1988	3703	3732
6406/3-6	15.11.2002	3548	3577
6406/3-7	19.09.2006	3875	3895
6406/5-1	30.04.2002	4060	4072
6406/6-2	31.01.2007	4032	4051
6406/6-3	09.07.2013	3721	3732
6406/6-4 S	30.10.2015	3957	3971
6406/6-6 A	05.01.2019	4137	4169
6406/6-6 S	16.11.2018	4137	4169
6406/8-2	08.04.2007	4240	4248
6406/9-1	02.06.2005	4229	4254
6406/9-2	01.07.2007	4315	4325
6406/9-3	29.09.2013	4182	4200
6406/11-1 S	18.02.1991	3370	3419
6406/12-1 S	28.02.1991	3577	3600
6406/12-3 A	22.07.2014	4019	4041



6406/12-3 B	11.06.2014	3695	3726
6406/12-3 S	26.04.2014	3505	3514
6406/12-4 A	17.09.2015	3443	3495
6406/12-4 S	17.08.2015	3699	3726
6406/12-5 S	12.11.2015	3729	3741
6406/12-G-1 H	24.10.2020	3823	3859
6407/1-2	15.05.1983	3510	3526
6407/1-3	16.01.1984	3500	3521
6407/1-4	23.08.1996	3547	3571
6407/2-1	06.08.1982	2827	2843
6407/2-2	31.07.1983	2395	2410
6407/2-4	31.08.2009	2800	2819
6407/2-5 S	02.09.2009	2719	2733
6407/2-6 S	13.05.2010	2863	2909
6407/3-1 S	08.05.2011	2530	2538
6407/3-2 S	05.09.2019	1944	1958
6407/4-1	15.11.1985	3682	3710
6407/4-2	13.04.2011	3769	3795
6407/5-1	04.03.1988	3850	3873
6407/6-1	26.10.1984	1817	1834
6407/7-7 S	20.09.2007	3327	3329
6407/7-8	14.09.2008	4005	4120
6407/7-8 A	05.11.2008	4005	4118
6407/7-9 A	16.10.2016	3841	3850
6407/7-9 S	20.09.2016	3438	3443
6407/8-1	07.06.1992	4062	4094
6407/8-3	27.05.1997	1631	1639
6407/8-5 A	13.06.2009	3194	3199
6407/9-1	07.09.1984	1583	1591
6407/9-2	02.02.1985	1610	1620
6407/9-8	22.09.1992	1598	1606
6407/9-12	08.11.2019	1613	1622
6407/9-13	14.02.2022	1977	1990
6407/10-2	23.06.1990	2770	2821
6407/10-3	27.06.1992	1770	1806
6407/10-4	19.01.2016	2368	2379
6407/10-5	18.09.2015	2513	2518
6407/11-1	07.12.2018	1736	1743
6407/12-1	15.07.1999	1614	1625
6407/12-3	02.06.2010	1598	1630
6408/4-1	18.10.1988	1666	1702



6506/6-1	07.12.2000	4328	4353
6506/9-1	15.09.2009	4548	4575
6506/9-2 S	28.04.2010	4120	4138
6506/9-3	27.08.2013	4000	4025
6506/9-4 A	13.07.2018	4133	4149
6506/9-4 S	27.04.2018	4339	4387
6506/11-1	31.03.1988	3813	3844
6506/11-2	26.10.1991	4139	4162
6506/11-3	02.10.1992	4142	4167
6506/11-4 S	06.06.1996	4399	4428
6506/11-5 S	10.11.1996	4094	4139
6506/11-7	27.07.2001	4549	4576
6506/11-8	16.07.2006	4586	4599
6506/11-9 S	03.09.2012	4513	4549
6506/11-10	17.04.2018	4201	4223
6506/11-11 S	28.10.2019	4116	4141
6506/12-1	06.02.1985	3813	3836
6506/12-4	13.08.1985	3835	3855
6506/12-8	30.08.1988	3725	3743
6506/12-9 S	10.09.1993	4128	4169
6506/12-10	26.06.1995	4177	4229
6506/12-10 A	11.12.1995	4833	4901
6506/12-11 S	07.09.1996	4554	4577
6506/12-11 SR	01.02.1997	4554	4577
6506/12-12 A	01.09.2009	4393	4408
6506/12-12 S	06.08.2009	4393	4408
6507/2-3	05.05.1994	3791	3843
6507/2-4	19.02.2008	3552	3600
6507/3-1	26.10.1990	3018	3088
6507/3-4	30.04.2004	3040	3161
6507/3-5 S	08.05.2008	3432	3566
6507/3-8	15.12.2009	2525	2534
6507/3-10	16.08.2013	2719	2842
6507/3-12	28.02.2017	2736	2891
6507/3-13	01.06.2019	3377	3420
6507/3-14	18.09.2021	3379	3418
6507/5-2	23.09.1999	3207	3222
6507/5-4	15.04.2001	3364	3371
6507/5-4 A	03.06.2001	3461	3474
6507/5-5	14.02.2002	3327	3339
6507/6-2	16.07.1991	3154	3174



6507/7-1	01.12.1984	3645	3680
6507/7-11 S	14.08.1997	3322	3327
6507/8-7	31.01.2004	2575	2649
6507/10-1	31.10.1982	2770	2781
6507/10-2 S	10.02.2014	2613	2615
6507/11-3	15.08.1985	2347	2358
6507/11-5 S	28.10.1997	2420	2434
6507/11-6	08.07.2001	2870	2885
6507/11-8	03.07.2007	2359	2373
6507/11-9	18.04.2008	2531	2535
6507/11-11	01.07.2015	2580	2604
6507/12-1	26.10.1980	2012	2032
6508/5-1	24.05.1987	1562	1580
6607/12-3	26.12.2012	3837	3855
6607/12-4	13.10.2020	3318	3387
6608/2-1 S	26.10.2013	5334	5634
6608/10-2	29.01.1992	2253	2347
6608/10-3	11.03.1993	2394	2407
6608/10-3 R	17.08.1995	2394	2407
6608/10-4	06.03.1994	2187	2328
6608/10-5	06.08.1995	2550	2598
6608/10-6	14.05.2000	1717	1794
6608/10-6 R	02.12.2000	1717	1794
6608/10-6 R2	29.08.2001	1712	1789
6608/10-7	23.05.2001	1803	1902
6608/10-8	12.04.2002	2088	2222
6608/10-8 A	26.04.2002	2108	2323
6608/10-9	18.02.2003	1821	2047
6608/10-10	07.08.2003	2304	2365
6608/10-11 S	15.08.2006	2956	3107
6608/10-12	21.12.2008	2599	2674
6608/10-12 A	25.01.2009	2679	2768
6608/10-14 S	01.04.2010	2283	2375
6608/10-15	12.09.2013	1735	1830
6608/10-16	13.06.2014	3484	3531
6608/10-17 S	31.01.2017	3205	3311
6608/10-18	17.08.2018	3357	3418
6608/11-8	21.06.2013	1619	1655
6608/11-9	05.08.2019	1444	1498
6609/11-1	07.07.1983	2022	2069
6610/3-1 R	11.12.1993	3418	3534



6610/3-1 R2	07.10.1996	3420	3536
6610/10-1	03.02.2013	2030	2264

Wellbores with cores

Wellbore name	Wellbore completion date	Core length [m]
6406/12-3 B	11.06.2014	23
6407/9-8	22.09.1992	1