Generell informasjon

Litostrat. enhet	ILE FM
NPDID for litostrat. enhet	70
Nivå	FORMATION
Litostrat. enhet, forelder	FANGST GP

Nivå under

Litostrat. enhet

Beskrivelse

Ile Formation

Name

From the Norwegian word for a stone sinker or a drag. The unit corresponds to the lower part of the informal Tomma Formation (H1-4) or “Tomma III”.

Well type section

Well 6507/11-3 (Saga Petroleum), coordinates 65°01'59.8"N, 07°30'42.34"E, from 2536 m to 2471.5 m (Fig 4.16). The entire formation is cored except for the basal 2 m.

Well reference section

Well 6407/1-3 (Statoil), coordinates 64°52'25.48"N, 07°02'53.47"E, from 3813 m to 3741 m (Fig 4.19). One core (10 m recovery), from the upper part of the unit.

Thickness

64.5 m in the type well and 72 m in the reference well.

Lithology

Fine to medium and occasionally coarse-grained sandstones with varying sorting are interbedded with thinly laminated siltstones and shales. Mica-rich intervals are common. Thin carbonate-cemented stringers occur, particularly in the lower parts of the unit.

Basal Stratotype

The lower boundary is defined at the base of a generally upwards coarsening sequence visible on the gamma ray log. In wells where this coarsening trend is not evident on logs, the base of the formation may be picked where the overall lithology changes from siltstone to sandstone. Often this transition is associated of one or more carbonate-rich beds.

Age

Late Toarcian to Aalenian.

Depositional environment

The formation represents various tidal-influenced delta or coastline settings.

Lateral extent and variation

The Ile Formation generally varies from 50 m to 100 m over most of Haltenbanken, with a general thickening to the west and a marked thinning to the northeast. It is also encountered in wells on Trænabanken. Sandstone-dominated successions of similar age have been located by sea bottom sampling and shallow drilling on the eastern part of the Trøndelag Platform (Bugge et al. 1984).

Correlation

No distinct comparable time equivalent formations are known from the North Sea area. In the Hammerfest Basin the middle part of the Stø Formation may be correlated to the Ile Formation.

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.

Brønnbaner som penetrerer

Brønnbane navn	Dato for boreslutt	Topp dyp [m]	Bunn dyp [m]
6307/1-1 S	28.12.2018	2080	2109
6406/2-1	09.04.1995	4601	4708
6406/2-1 R	07.01.1996	4599	4706
6406/2-2	27.03.1996	4623	4756
6406/2-2 R	03.03.2006	4617	4750
6406/2-3	15.04.1997	4751	4837
6406/2-5	29.09.1997	4950	5043
6406/2-5 A	23.02.1998	5481	5577
6406/2-6	07.11.1998	4617	4718
6406/2-6 A	06.07.2000	4997	5092
6406/2-6 R	23.05.2000	4618	4719
6406/2-7	26.12.1999	4599	4701
6406/2-9 S	15.01.2019	4629	4700
6406/3-1	14.08.1984	3934	4012
6406/3-2	22.11.1986	4069	4128
6406/3-3	26.10.1986	4066	4131
6406/3-4	29.12.1987	4162	4224
6406/3-5	01.06.1988	3949	4012
6406/3-6	15.11.2002	3805	3889
6406/3-7	19.09.2006	4113	4179
6406/3-8	10.08.2010	3976	4041
6406/3-10	05.04.2020	4192	4256
6406/3-10 A	31.08.2021	4519	4585
6406/5-1	30.04.2002	4335	4443
6406/6-1	30.12.1985	4335	4416
6406/6-2	31.01.2007	4282	4390
6406/6-3	09.07.2013	3921	4035
6406/6-4 S	30.10.2015	4153	4254
6406/6-6 A	05.01.2019	4682	4842
6406/6-6 S	16.11.2018	4640	4792
6406/8-1	11.04.1988	4366	4493
6406/8-2	08.04.2007	4264	4383
6406/9-1	02.06.2005	4533	4634
6406/9-2	01.07.2007	4758	4856
6406/9-3	29.09.2013	4635	4743
6406/11-1 S	18.02.1991	3599	3722
6407/1-2	15.05.1983	3815	3907
6407/1-3	16.01.1984	3741	3813

6407/1-5 S	21.05.2012	3939	4024
6407/1-6 S	24.01.2013	4077	4195
6407/1-8 S	28.10.2020	3555	3570
6407/2-1	06.08.1982	3015	3072
6407/2-2	31.07.1983	2527	2602
6407/2-3	23.01.1987	2509	2581
6407/2-4	31.08.2009	2973	3001
6407/2-5 S	02.09.2009	2828	2926
6407/3-1 S	08.05.2011	2700	2755
6407/3-2 S	05.09.2019	2120	2178
6407/4-1	15.11.1985	4021	4106
6407/4-2	13.04.2011	4144	4230
6407/5-2 S	04.09.2011	3280	3340
6407/6-1	26.10.1984	2019	2091
6407/6-3	16.02.1987	2548	2639
6407/6-4	13.12.1990	2791	2881
6407/6-5	27.12.1999	2485	2558
6407/6-6	05.02.2008	2200	2270
6407/6-7 S	27.05.2009	2827	2893
6407/7-2	21.01.1987	2697	2712
6407/7-2 R	30.04.1990	2699	2714
6407/7-3	18.05.1988	2851	2867
6407/7-4	28.03.1989	2874	2896
6407/7-5	15.02.1991	3164	3207
6407/7-6	16.12.2000	3448	3558
6407/7-7 S	20.09.2007	3376	3466
6407/7-8	14.09.2008	4457	4563
6407/7-8 A	05.11.2008	4533	4662
6407/7-9 A	16.10.2016	3992	4116
6407/7-9 A	16.10.2016	4121	4124
6407/7-9 A	16.10.2016	4184	4333
6407/7-9 S	20.09.2016	3623	3738
6407/8-3	27.05.1997	1678	1805
6407/8-4 S	21.05.2008	2375	2422
6407/8-5 A	13.06.2009	2347	2458
6407/8-5 A	13.06.2009	3014	3194
6407/8-5 S	26.05.2009	2347	2488
6407/8-6	20.10.2013	2789	2831
6407/8-6 A	09.12.2013	3023	3124
6407/8-7	12.05.2015	2448	2540
6407/9-4	10.09.1985	1748	1767

6407/9-7	25.05.1988	1864	1926
6407/9-8	22.09.1992	1887	2006
6407/9-9	06.07.1999	1726	1744
6407/9-13	14.02.2022	2298	2350
6407/10-1	19.06.1987	2803	2868
6407/10-2	23.06.1990	3436	3479
6407/12-3	02.06.2010	1921	1968
6408/4-1	18.10.1988	1968	2015
6506/6-1	07.12.2000	5033	5095
6506/9-1	15.09.2009	5294	5358
6506/9-2 S	28.04.2010	4397	4471
6506/9-3	27.08.2013	4302	4386
6506/9-4 A	13.07.2018	4351	4420
6506/9-4 S	27.04.2018	4592	4662
6506/11-1	31.03.1988	4263	4363
6506/11-2	26.10.1991	4359	4421
6506/11-4 S	06.06.1996	4658	4726
6506/11-5 S	10.11.1996	4329	4399
6506/11-6	22.08.1998	4817	4896
6506/11-7	27.07.2001	4661	4709
6506/11-8	16.07.2006	4735	4798
6506/11-9 S	03.09.2012	4821	4970
6506/11-10	17.04.2018	4473	4517
6506/11-11 S	28.10.2019	4209	4357
6506/12-1	06.02.1985	4048	4107
6506/12-3	17.07.1985	3947	3997
6506/12-4	13.08.1985	4045	4116
6506/12-5	27.03.1986	4068	4138
6506/12-6	02.08.1986	4311	4410
6506/12-7	12.08.1987	4474	4556
6506/12-8	30.08.1988	3993	4065
6506/12-9 S	10.09.1993	4464	4533
6506/12-10	26.06.1995	4636	4723
6506/12-10 A	11.12.1995	5338	5416
6506/12-11 S	07.09.1996	4835	4901
6506/12-11 SR	01.02.1997	4835	4901
6506/12-12 A	01.09.2009	4870	4990
6506/12-12 S	06.08.2009	4868	4991
6507/2-1	29.09.1986	3907	3929
6507/2-2	16.03.1992	3703	3720
6507/2-5 S	14.09.2019	4107	4150

6507/3-1	26.10.1990	3665	3723
6507/3-2	27.04.1997	1205	1210
6507/3-3	25.03.1999	3447	3478
6507/3-3 B	16.06.1999	4020	4110
6507/3-4	30.04.2004	3786	3856
6507/3-5 S	08.05.2008	4016	4063
6507/3-6	23.06.2009	1304	1319
6507/3-7	22.07.2009	3622	3639
6507/3-8	15.12.2009	2740	2789
6507/3-10	16.08.2013	3321	3333
6507/3-11 S	15.08.2015	2200	2260
6507/3-12	28.02.2017	3347	3396
6507/4-2 S	19.05.2021	4361	4423
6507/5-1	03.05.1998	3476	3517
6507/5-2	23.09.1999	3696	3717
6507/5-4	15.04.2001	3609	3632
6507/5-4 A	03.06.2001	3821	3847
6507/5-5	14.02.2002	3742	3774
6507/5-7	24.06.2014	1341	1356
6507/6-2	16.07.1991	3812	3853
6507/6-3	24.11.2008	1430	1490
6507/7-1	01.12.1984	4338	4478
6507/7-3	18.09.1985	2412	2434
6507/7-4	13.01.1986	2516	2540
6507/7-5	06.03.1986	2409	2424
6507/7-8	02.08.1987	2470	2497
6507/7-10	29.10.1993	2534	2563
6507/7-11 S	14.08.1997	3497	3558
6507/7-14 S	26.09.2010	4313	4378
6507/7-15 S	02.05.2012	4356	4410
6507/7-16 S	18.12.2019	3009	3090
6507/8-1	09.12.1986	2307	2324
6507/8-3	20.09.1988	1386	1402
6507/8-5	16.03.1991	1864	1900
6507/8-6	09.10.1993	2128	2147
6507/8-7	31.01.2004	2851	2900
6507/8-10 S	23.04.2020	2002	2007
6507/10-1	31.10.1982	2881	2994
6507/10-2 S	10.02.2014	2695	2750
6507/11-1	10.12.1981	2358	2410
6507/11-2	30.05.1982	1948	2040

6507/11-3	15.08.1985	2472	2536
6507/11-4	22.06.1987	2747	2866
6507/11-5 S	28.10.1997	2554	2624
6507/11-6	08.07.2001	3094	3160
6507/11-8	03.07.2007	2459	2519
6507/11-9	18.04.2008	2653	2730
6507/11-10	16.02.2010	2134	2195
6507/12-1	26.10.1980	2143	2213
6507/12-3	13.09.1985	2032	2098
6508/1-1 S	29.08.1999	2392	2503
6508/5-1	24.05.1987	1778	1824
6510/2-1	10.10.1997	1688	1722
6510/2-1 R	21.12.1997	1688	1722
6607/12-2 S	25.10.2011	3672	3753
6607/12-3	26.12.2012	3997	4113
6607/12-4	13.10.2020	3741	3787
6608/10-1	29.05.1989	3153	3164
6608/10-2	29.01.1992	2619	2659
6608/10-3	11.03.1993	2617	2657
6608/10-3 R	17.08.1995	2617	2657
6608/10-4	06.03.1994	2605	2617
6608/10-5	06.08.1995	2751	2756
6608/10-8	12.04.2002	2389	2391
6608/10-8 A	26.04.2002	2612	2615
6608/10-10	07.08.2003	2500	2504
6608/10-11 S	15.08.2006	3550	3638
6608/10-14 S	01.04.2010	2549	2557
6608/10-16	13.06.2014	3750	3761
6608/11-3	15.12.2002	1509	1517
6608/11-6	06.08.2008	1587	1601
6608/11-8	21.06.2013	1814	1823
6609/10-2	03.10.2009	1969	2006
6610/3-1 R	11.12.1993	3711	3730
6610/3-1 R2	07.10.1996	3713	3732
6610/7-1	19.06.1983	2658	2679

Brønnbaner med kjerner

Brønnbane navn	Dato for boreslutt	Kjernelengde [m]
6406/2-1	09.04.1995	105
6406/2-2	27.03.1996	130

6406/2-3	15.04.1997	52
6406/2-5	29.09.1997	94
6406/2-5 A	23.02.1998	49
6406/2-7	26.12.1999	32
6406/3-2	22.11.1986	58
6406/3-4	29.12.1987	51
6406/3-10 A	31.08.2021	55
6406/5-1	30.04.2002	49
6406/6-6 S	16.11.2018	27
6406/8-1	11.04.1988	123
6406/9-1	02.06.2005	41
6406/9-2	01.07.2007	28
6406/9-3	29.09.2013	27
6406/11-1 S	18.02.1991	95
6407/1-3	16.01.1984	10
6407/2-2	31.07.1983	42
6407/2-3	23.01.1987	63
6407/2-5 S	02.09.2009	55
6407/4-1	15.11.1985	55
6407/6-3	16.02.1987	51
6407/6-5	27.12.1999	68
6407/6-6	05.02.2008	26
6407/7-2	21.01.1987	11
6407/7-3	18.05.1988	15
6407/7-4	28.03.1989	19
6407/7-5	15.02.1991	39
6407/7-7 S	20.09.2007	27
6407/7-8	14.09.2008	11
6407/7-9 S	20.09.2016	55
6407/8-4 S	21.05.2008	26
6407/8-6 A	09.12.2013	12
6407/10-1	19.06.1987	51
6407/10-2	23.06.1990	11
6506/9-1	15.09.2009	59
6506/9-2 S	28.04.2010	55
6506/9-3	27.08.2013	81
6506/9-4 S	27.04.2018	27
6506/11-1	31.03.1988	11
6506/11-2	26.10.1991	50
6506/11-6	22.08.1998	79
6506/11-7	27.07.2001	35

6506/11-8	16.07.2006	32
6506/11-9 S	03.09.2012	70
6506/12-1	06.02.1985	58
6506/12-3	17.07.1985	48
6506/12-5	27.03.1986	60
6506/12-6	02.08.1986	52
6506/12-7	12.08.1987	27
6506/12-8	30.08.1988	37
6506/12-9 S	10.09.1993	51
6506/12-10	26.06.1995	56
6507/2-5 S	14.09.2019	42
6507/3-1	26.10.1990	27
6507/3-3	25.03.1999	17
6507/3-4	30.04.2004	33
6507/3-7	22.07.2009	17
6507/3-8	15.12.2009	45
6507/3-10	16.08.2013	12
6507/3-12	28.02.2017	35
6507/5-1	03.05.1998	42
6507/5-2	23.09.1999	21
6507/5-4	15.04.2001	23
6507/7-1	01.12.1984	38
6507/7-3	18.09.1985	22
6507/7-4	13.01.1986	24
6507/7-5	06.03.1986	13
6507/7-8	02.08.1987	27
6507/7-10	29.10.1993	18
6507/7-15 S	02.05.2012	48
6507/7-16 S	18.12.2019	78
6507/8-1	09.12.1986	15
6507/8-3	20.09.1988	7
6507/8-5	16.03.1991	15
6507/10-1	31.10.1982	6
6507/11-2	30.05.1982	32
6507/11-3	15.08.1985	65
6507/11-5 S	28.10.1997	70
6507/11-8	03.07.2007	44
6508/5-1	24.05.1987	12
6607/12-3	26.12.2012	54
6608/10-1	29.05.1989	1
6608/10-2	29.01.1992	36

6608/10-3	11.03.1993	34
6608/10-4	06.03.1994	12
6608/10-8	12.04.2002	2
6608/10-14 S	01.04.2010	8
6610/3-1 R	11.12.1993	4
6610/7-1	19.06.1983	18