



General information

Lithostrat. unit	BURTON FM
NPDID lithostrat. unit	20
Level	FORMATION
Lithostrat. unit, parent	DUNLIN GP

Level below

Lithostrat. unit

Description



Burton Formation

Name

Named by Deegan and Scull (1977) who gave it "sub-unit" status.

Well type section

UK well 211/29-3 (Shell) from 2950.5 m to 2993 m, coord N 61°08'06", E 01°43'36.5", ([Fig 3.10](#)).

Well reference section

Norwegian well [33/9-1](#) (Mobil) from 2801 m to 2838 m, coord N 61°15'07.5", E 01°50'25.8" ([Fig 3.11](#)).

Thickness

42.5 m in the type well and 37 m in the reference well.

Lithology

In the type well it consists of a uniform development of dark grey to reddish-grey, soft non-calcareous claystone and shale, which may be in part slightly carbonaceous.

Boundaries

The formation is normally represented on both gamma ray and sonic logs by smooth linear almost constant readings, reflecting the lithological uniformity. The upper and lower contacts are identified where this log character changes.

Distribution

Although the log character changes slightly away from the type section, the formation can be recognised over a wide area of the northern North Sea. The formation has not been identified on the Horda Platform. It represents essentially a basinal facies and passes laterally into the [Amundsen Formation](#) in marginal areas.

Age

Sinemurian to Pliensbachian.

Depositional environment

The formation is believed to represent open marine basinal deposits.

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]
25/5-3	26.03.1990	2475	2613
25/5-4	07.03.1991	2941	3052
25/8-15 S	07.08.2004	4656	4698
25/9-2 S	03.08.2003	2190	2250



29/3-1	15.09.1986	4147	4215
29/6-1	09.05.1982	4607	4645
29/9-1	24.02.1984	4530	4562
30/2-1	12.10.1982	4000	4110
30/2-3	05.10.1992	4199	4241
30/2-4 S	09.08.2008	4217	4309
30/3-2 R	16.02.1981	3121	3228
30/3-7 S	12.12.1995	5197	5234
30/4-2	16.05.1980	4208	4243
30/6-2	11.12.1979	2445	2513
30/6-8	06.08.1982	3405	3471
30/6-9	16.12.1982	2878	2964
30/6-9 R	12.05.1990	2876	2962
30/6-14	08.02.1984	2696	2734
30/6-15	05.09.1984	3109	3174
30/6-16	21.01.1985	2946	2960
30/6-19	21.06.1986	3159	3198
30/6-19 R	25.05.1994	3158	3197
30/6-23	01.07.1990	3065	3102
30/6-29 S	03.03.2015	5592	5735
30/7-7	01.07.1979	4801	4884
30/7-8 R	29.01.1982	4366	4482
30/8-1 S	01.03.1995	4464	4556
30/8-1 SR	01.03.1996	4464	4556
30/9-3 A	20.05.1984	3466	3565
30/9-4 S	30.03.1985	3991	4054
30/9-5 S	19.07.1985	2466	2527
30/9-6	21.04.1987	2845	2907
30/9-7	23.12.1988	3387	3426
30/9-9	06.11.1989	2591	2639
30/9-10	21.09.1990	3424	3502
30/9-11 A	29.12.1990	2836	2875
30/9-16	08.08.1994	3140	3267
30/11-3	14.03.1983	4279	4324
30/11-4	24.07.1984	4273	4319
30/12-1	07.03.1994	3417	3549
31/5-7	06.03.2020	2695	2702
31/11-1 S	28.06.2021	2906	2929
32/4-1	04.12.1996	1783	1785
33/6-1	06.07.1979	3731	3755
33/6-2	02.01.1997	3856	3872



33/6-3 S	24.07.2012	4198	4230
33/9-1	04.06.1974	2801	2838
33/9-3	14.11.1974	2655	2849
33/9-6	31.08.1976	3250	3280
33/9-9	17.11.1977	2558	2715
33/9-12	03.08.1987	2667	2692
33/9-19 A	09.08.1996	3194	3283
33/9-19 S	23.07.1996	2975	3027
33/12-6	21.06.1976	3440	3565
33/12-7	27.04.1989	3472	3530
33/12-8 S	26.04.2002	3429	3476
34/2-2 R	08.05.1981	3683	3705
34/2-4	11.06.1985	3933	3972
34/3-1 A	30.10.2008	4067	4131
34/3-1 S	10.09.2008	3958	4016
34/3-2 S	30.12.2009	4104	4210
34/3-3 A	03.01.2012	4968	5013
34/3-3 S	19.11.2011	3996	4063
34/4-3	30.03.1982	4257	4281
34/4-14 S	19.05.2015	4519	4538
34/5-1 A	10.04.2010	4356	4416
34/5-1 S	13.03.2010	3696	3761
34/6-1 S	28.08.2002	3932	3941
34/6-2 S	05.11.2012	3777	3782
34/6-3 A	01.11.2014	3717	3727
34/6-3 S	24.09.2014	4001	4013
34/6-4	02.03.2016	4067	4115
34/6-5 S	08.06.2021	3772	4036
34/7-5	16.03.1985	2768	2794
34/7-10	29.10.1986	2400	2440
34/7-12	17.12.1987	2518	2547
34/7-13	13.04.1988	2742	2758
34/7-14	02.12.1989	2629	2653
34/7-16	13.08.1990	2660	2685
34/7-16 R	15.10.1990	2661	2686
34/7-16 R2	05.07.1994	2660	2685
34/7-17	07.04.1991	2818	2832
34/7-20	27.08.1992	2919	2947
34/8-1	08.03.1986	3163	3198
34/8-2	17.11.1986	2934	2937
34/8-3	14.09.1988	3118	3155



34/8-5	01.04.1991	3186	3249
34/8-7	16.07.1992	4953	4970
34/8-7 R	10.02.1993	4953	4970
34/8-8	24.08.1992	3260	3287
34/8-8 R	09.03.1993	3260	3286
34/8-9 S	28.12.1992	3113	3123
34/8-10 S	09.12.1993	2939	2972
34/8-17 S	14.03.2014	4199	4244
34/10-1	08.09.1978	2081	2120
34/10-2	08.12.1978	3200	3222
34/10-3	07.06.1979	2326	2336
34/10-3 R	10.10.1987	2323	2333
34/10-4	15.10.1979	2165	2175
34/10-5	02.01.1980	2381	2388
34/10-7	23.03.1980	1937	1945
34/10-7 R	14.07.1983	1934	1942
34/10-9 R	03.07.1980	2203	2214
34/10-15	12.12.1982	2034	2049
34/10-16	11.04.1983	3602	3625
34/10-16 R	27.09.1983	3599	3622
34/10-17	08.07.1983	3220	3267
34/10-18	30.08.1983	2785	2843
34/10-19	06.12.1983	1830	1840
34/10-23	13.10.1985	4515	4578
34/10-33	15.12.1988	3629	3676
34/10-35	01.07.1992	4048	4116
34/10-38 S	29.05.1995	3211	3267
34/10-39 S	20.06.1995	2985	3065
34/10-41 S	28.08.1997	3099	3191
34/10-43 S	11.04.2001	3544	3600
34/10-44 S	08.07.2001	3498	3535
34/10-47 A	14.11.2002	2793	2818
34/10-49 B	21.05.2006	2925	2980
34/10-49 B	21.05.2006	3935	3988
34/10-49 S	08.05.2006	2925	2980
34/10-54 A	18.04.2014	4299	4359
34/10-54 S	11.02.2014	4230	4280
34/11-1	25.10.1994	4338	4395
34/11-2 S	17.05.1996	4478	4512
34/11-3	16.01.1997	4304	4360
35/1-1	18.07.2002	4087	4124



35/1-2 S	19.12.2010	3961	3983
35/3-2	26.10.1980	3946	3975
35/3-5	31.03.1982	4052	4060
35/7-1 S	15.08.2011	4771	4782
35/8-1	24.01.1981	3982	3995
35/8-2	21.05.1982	4064	4095
35/9-9	18.11.2013	3171	3180
35/9-11 A	21.05.2014	3701	3709
35/9-11 S	15.04.2014	3701	3710
35/10-2	22.08.1996	4450	4471

Wellbores with cores

Wellbore name	Wellbore completion date	Core length [m]
25/5-4	07.03.1991	6
30/3-2 R	16.02.1981	0
30/4-2	16.05.1980	4
30/6-2	11.12.1979	7
30/6-16	21.01.1985	2
30/9-5 S	19.07.1985	6
31/5-7	06.03.2020	1
34/10-7	23.03.1980	3
34/10-35	01.07.1992	15
35/3-2	26.10.1980	14