



General information

Lithostrat. unit	TYNE GP
NPDID lithostrat. unit	177
Level	GROUP

Level below

Lithostrat. unit
ELDFISK FM
FARSUND FM
HAUGESUND FM
MANDAL FM

Description

Tyne Group

Name

From the River Tyne in north-eastern England. It includes sediments formerly assigned to the Humber Group by Deegan and Scull (1977). For further discussion, see “remarks” under the [Viking Group](#).

Type area

The group is found in the Central Graben and the Southern Vestland Arch. Its northern limit is defined approximately by 58° N. The Tyne Group is illustrated in the Norwegian sector by wells [2/7-3](#) (Phillips) and [7/12-2](#) (BP).

Thickness

The Tyne Group is thickest in the axial regions of the Central Graben, where more than 800 m of the group have been penetrated. The group thins, locally to only a few metres, over intrabasinal highs and the Southern Vestland Arch. The thicknesses in the above selected wells are 839 m ([2/7-3](#)) and 116.5 m ([7/12-2](#)).

Lithology

Claystone is the dominant lithology of the Tyne Group sediments. These range in colour from grey to brownish black and contain frequent silty, sandy and calcareous horizons. The Tyne Group also includes a thicker, discrete sand unit occurring locally in the Central Graben which is named the [Eldfisk Formation](#).

Boundaries

In wells situated in the axial portion of the Central Graben the base of the Tyne Group is not penetrated except where the group is underlain by diapiric Zechstein salt (e.g. [2/7-3](#)). On the south-western flank of the Southern Vestland Arch the Tyne Group overlies sands of the [Vestland Group](#) or may locally rest with unconformity on Triassic or Lower Jurassic sediments. In most cases the lower boundary is marked by a downward break to lower gamma ray and generally higher sonic log velocities.

The upper boundary is picked where the exceptionally high gamma ray response and low sonic velocity of the [Mandal Formation](#) (the uppermost formation of the group) gives way to the lower gamma ray, and higher sonic velocity values of the Lower Cretaceous [Cromer Knoll Group](#).



Distribution

The Tyne Group is distributed throughout the Central Graben and over the Southern Vestland Arch. It passes northwards (in the Viking Graben) into the [Viking Group](#). Due to the overall transgressive nature of the unit the higher formations of the group are more widely distributed.

Age

The group ranges in age from Callovian to Ryazanian.

Subdivision

Four formations are recognised within the Tyne Group, namely the [Haugesund](#), [Eldfisk](#), [Farsund](#) and [Mandal](#) formations. The lowermost is the [Haugesund Formation](#), which is generally overlain by the [Farsund Formation](#). Locally in the Central Graben the two formations are separated by the [Eldfisk Formation](#). The uppermost and most widespread unit is the [Mandal Formation](#).

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]
1/3-3	24.03.1983	4043	4178
1/3-8	27.05.1997	4733	5005
1/3-9 S	31.07.1998	4119	4266
1/3-12 S	22.07.2010	5541	5736
1/5-2	15.04.1974	4203	4228
1/5-5	16.09.2016	5712	5831
1/6-6	08.03.1993	4846	5457
1/6-7	12.07.1992	4402	4995
1/9-3 R	30.09.1978	4265	4570
1/9-7	02.08.2003	4313	4986
2/1-2	26.02.1978	3299	3316
2/1-3	29.03.1980	3791	3820
2/1-4	03.08.1982	4004	4251
2/1-5	05.04.1983	3882	4193
2/1-6	12.08.1984	4104	4560
2/1-7	06.03.1985	3974	4024
2/1-8	23.11.1985	3880	4037
2/1-9	06.07.1991	4014	4048
2/1-9 A	08.03.1992	4068	4099
2/1-10	14.01.1992	4127	4189
2/1-10	14.01.1992	4322	4435



2/1-11	07.05.1997	4173	4506
2/1-12	10.02.1999	3250	3251
2/1-12	10.02.1999	3341	3513
2/1-13 S	07.03.2009	4176	4241
2/1-14 S	28.02.2009	5947	6022
2/1-15	05.09.2013	3393	3431
2/1-16 S	13.07.2013	3434	3891
2/1-17 S	08.11.2019	4002	4390
2/2-1	03.07.1982	3314	3357
2/2-2	27.08.1982	2908	2917
2/2-3	11.05.1983	3523	3880
2/2-4	07.06.1988	3308	3324
2/2-5	19.02.1992	3418	3538
2/2-6	14.05.2010	3585	4105
2/3-3	20.11.1971	2825	2875
2/3-4	24.07.1984	3005	3006
2/4-8	29.03.1972	3677	3696
2/4-11	09.04.1974	3969	4211
2/4-14	31.01.1989	4702	4729
2/4-14 R	06.04.1990	4714	4741
2/4-14 R2	14.04.1990	4702	4729
2/4-15 S	16.03.1990	4958	4962
2/4-15 SR	27.10.2003	4958	4965
2/4-16	04.11.1991	4737	4877
2/4-16 R	15.07.1992	4737	4877
2/4-17	29.02.1992	4189	4340
2/4-18 R	10.07.1994	4716	5310
2/4-20	14.03.2008	4818	5176
2/4-21	24.05.2012	4768	5395
2/4-21 A	24.07.2012	4769	5573
2/4-22 S	22.02.2015	4419	4567
2/4-23 S	05.09.2015	4907	5205
2/5-1	22.11.1970	3839	3972
2/5-6	16.08.1978	3596	3946
2/5-7	24.02.1984	4108	4347
2/5-9	18.01.1992	4137	5460
2/5-10	26.08.1993	4298	4582
2/5-10 A	25.09.1993	4298	4616
2/5-12	22.02.2002	3700	4153
2/5-13	21.01.2009	4320	4525
2/6-1	30.05.1969	3102	3217



2/6-2	25.05.1980	4118	4560
2/6-3	25.02.1983	3391	3545
2/7-1	11.12.1970	3707	4258
2/7-2	02.03.1971	3862	3875
2/7-3	11.10.1972	3342	4192
2/7-9	10.04.1974	4076	4311
2/7-15	02.06.1980	3584	4423
2/7-19	02.02.1981	4586	4693
2/7-19 R	14.03.1990	4583	4690
2/7-20	25.06.1988	4060	4061
2/7-20 R	01.11.1991	4057	4058
2/7-22	15.10.1990	4452	4470
2/7-23 S	21.11.1990	4408	4412
2/7-24	13.04.1991	3195	5023
2/7-25 S	31.03.1991	4711	5177
2/7-26 S	13.09.1991	4299	4386
2/7-27 S	17.06.1992	4476	4483
2/7-28	07.08.1992	3339	3839
2/7-29	06.01.1994	4363	4789
2/7-31	09.06.1999	4437	4469
2/8-3	03.09.1972	3537	4115
2/8-12 S	27.04.1989	4000	5191
2/8-14	22.01.1991	3188	4392
2/9-2	04.09.1979	3653	4292
2/9-3	14.12.1989	3846	4525
2/9-4	04.07.2008	4698	5450
2/9-5 S	18.09.2014	3430	3547
2/9-6 S	15.02.2021	3890	4330
2/10-1 S	23.04.1976	4265	4271
2/10-2	25.04.1993	3882	3905
2/11-1	03.10.1969	3555	4691
2/11-7	06.09.1986	3773	5042
2/11-8	11.07.1991	4265	4268
2/11-12 A	07.03.2019	3140	3390
2/12-1	12.03.1987	3988	4597
2/12-2 S	14.09.1990	4325	5537
3/4-1	26.02.1994	2718	2736
3/4-1	26.02.1994	2920	3013
3/4-2 S	31.08.2012	2911	2961
3/5-1	28.06.1978	2734	2902
3/5-2	20.08.1978	3144	3345



3/7-2	20.06.1981	2830	2907
3/7-3	31.08.1981	3432	3506
3/7-4	23.01.1990	3261	3411
3/7-5	07.02.1992	3085	3379
3/7-6	30.11.1996	3439	4120
3/7-7	27.10.2008	3435	3930
3/7-8 S	03.03.2013	3801	3892
3/7-9 S	28.04.2013	3490	3524
3/8-1	29.12.2010	3286	3563
7/1-2 S	08.05.2008	2848	2945
7/4-1	21.08.1993	2970	3065
7/4-2	13.03.2008	3288	3382
7/7-2	25.04.1992	3240	3327
7/7-3	04.07.1993	3413	3491
7/8-1	05.02.1969	3201	3219
7/8-2	29.08.1973	2808	2822
7/8-3	12.12.1983	3639	3724
7/8-4	20.02.1985	3817	3826
7/8-5 S	03.06.2006	3832	3950
7/9-1	29.05.1971	2453	2487
7/11-5	10.06.1982	4024	4155
7/11-6	20.10.1982	4008	4098
7/11-7	25.12.1983	4405	4527
7/11-7 R	08.10.1984	4405	4527
7/11-9	09.03.1986	4027	4169
7/11-10 S	10.09.1990	4268	4341
7/11-11 S	10.06.2007	4274	4470
7/11-12 A	31.12.2011	5301	5493
7/11-12 S	16.07.2011	5059	5197
7/11-13	03.11.2012	3680	3697
7/11-14 S	31.10.2021	3992	4075
7/12-2	23.09.1976	3262	3379
7/12-3 A	06.09.1977	3514	3638
7/12-4	12.12.1977	3350	3445
7/12-5	07.06.1981	3731	3831
7/12-6	24.07.1981	3292	3521
7/12-7	26.07.1988	3662	3772
7/12-8	23.12.1988	3640	3718
7/12-9	14.05.1990	3632	3820
7/12-10	29.08.1991	3538	3627
7/12-11	06.11.1991	3728	3788



7/12-12 S	17.03.1996	5902	6018
7/12-13 S	18.05.2012	4034	4255
8/10-3	06.10.2010	3077	3099
8/10-4 A	18.12.2011	3278	3432
8/10-4 S	27.10.2011	2887	2948
8/10-5 A	24.05.2014	2332	2403
8/10-5 S	04.03.2014	2649	2708
8/10-6 S	16.07.2014	1985	2196
8/10-7 S	04.01.2019	2879	2938
16/10-5	27.11.2012	2831	2929

Wellbores with cores

Wellbore name	Wellbore completion date	Core length [m]
1/3-3	24.03.1983	18
1/6-7	12.07.1992	46
2/1-4	03.08.1982	102
2/1-5	05.04.1983	18
2/1-6	12.08.1984	226
2/1-8	23.11.1985	60
2/1-9	06.07.1991	29
2/2-1	03.07.1982	1
2/4-17	29.02.1992	1
2/4-18 R	10.07.1994	12
2/4-21	24.05.2012	63
2/5-6	16.08.1978	10
2/5-10	26.08.1993	7
2/5-10 A	25.09.1993	4
2/6-2	25.05.1980	15
2/7-15	02.06.1980	10
2/7-24	13.04.1991	17
2/7-25 S	31.03.1991	53
2/7-26 S	13.09.1991	15
2/7-28	07.08.1992	24
2/7-29	06.01.1994	94
2/9-2	04.09.1979	18
2/9-3	14.12.1989	0
2/9-6 S	15.02.2021	73
2/11-1	03.10.1969	15
2/12-2 S	14.09.1990	7



3/7-6	30.11.1996	10
3/7-7	27.10.2008	54
3/7-8 S	03.03.2013	2
7/4-1	21.08.1993	17
7/4-2	13.03.2008	4
7/7-2	25.04.1992	5
7/7-3	04.07.1993	4
7/8-4	20.02.1985	1
7/11-9	09.03.1986	3
7/12-6	24.07.1981	114
7/12-9	14.05.1990	33
7/12-10	29.08.1991	11
8/10-5 S	04.03.2014	36
8/10-6 S	16.07.2014	53