Generell informasjon

Litostrat. enhet	SOTBAKKEN GP
NPDID for litostrat. enhet	154
Nivå	GROUP

Nivå under

Litostrat. enhet
TORSK FM

Beskrivelse

Sotbakken Group

Name

From a submarine slope north of Vannøy around 70°40'N, 19°40'E. The unit corresponds to T6 or Nordkapp Group of earlier usage.

Type area

Block 7119/12.

Thickness

The group shows a general increase in thickness from approximately 300 m near the southern margins of the Hammerfest Basin, to approximately 1 km in the most sorthwestern wells in the basin.

Lithology

The group is dominated by claystones, with only minor siltstone, tuffaceous and carbonate horizons.

Basal Stratotype

The base of the constituent Torsk Formation is defined by changes in sonic and density log responses. The basal contact is unconformable and represents an important depositional break in the latest Cretaceous and early Paleocene throughout the Tromsøflaket area.

Lateral extent and variation

Due to a shift in tectonic regime in the middle Oligocene, large areas of the Barents Shelf east of the Senja Ridge were uplifted and subjected to erosion, which lasted until the early Pliocene. The erosional products were deposited west of the ridge. As a result of this postdepositional erosion, the upper part of the Sotbakken Group is not preserved in the eastern parts of Tromsøflaket. The lower parts are probably present throughout the Barents Shelf, but younger sequences are only preserved over the Ringvassøy - Loppa Fault Complex and in the Tromsø Basin (c.f. Spencer et al. 1984).

Age

Preserved sequences show a late Paleocene (Thanetian) to early/middle Eocene (Ypresian/ Lutetian) age in central and eastern parts of the Hammerfest Basin. Oligocene sequences may also be present in western wells.

Depositional environment

The whole Barents Shelf was transgressed in the mid-Paleocene and a uniform sequence of outer sublittoral to deep shelf claystones were deposited.

Correlation

The group is time-equivalent to the van Mijenfjord Group on Svalbard; however, the van Mijenfjordenen Group shows a much more marginal marine development with intercalated coarse and fine clastic units.

Subdivision

At present only one formation is recognized within the group.

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]
7016/2-1	03.11.2013	3091	4061
7019/1-1	03.12.2000	448	603
7117/9-1	16.07.1982	1139	1809
7117/9-2	09.09.1983	1092	1375
7119/7-1	11.09.1983	440	1332
7119/9-1	25.09.1984	1015	1447
7119/12-1	10.10.1980	465	810
7119/12-3	12.09.1983	442	1202
7119/12-4	17.02.2011	472	612
7120/1-1	15.11.1985	490	692
7120/1-1 R	26.12.1985	490	692
7120/1-1 R2	21.07.1986	490	692
7120/1-2	28.03.1989	408	1560
7120/1-3	07.10.2013	436	689
7120/1-4 S	03.08.2014	451	733
7120/1-5	07.05.2017	453	686
7120/2-1	29.10.1985	476	613
7120/2-2	23.03.1991	437	1443
7120/2-3 S	09.07.2011	375	1441
7120/5-1	06.06.1985	410	1183
7120/6-1	02.05.1985	410	1081
7120/6-2 S	22.07.2007	459	1137
7120/6-3 S	30.11.2012	370	1256
7120/7-1	08.10.1982	645	992
7120/7-2	21.08.1983	380	947

7120/7-3	09.06.1984	380	1312
7120/8-1	10.09.1981	603	1056
7120/8-2	29.07.1982	558	877
7120/8-3	24.05.1983	605	1067
7120/8-4	10.12.2007	376	1186
7120/9-1	26.09.1982	590	965
7120/9-2	20.10.1984	380	1072
7120/10-1	08.09.1984	444	531
7120/10-2	05.09.1990	468	647
7120/12-1	12.10.1980	462	725
7120/12-2	11.09.1981	463	701
7120/12-3	05.05.1983	387	738
7121/1-1	13.11.1985	519	698
7121/1-1 R	23.08.1986	519	698
7121/1-2 S	02.03.2019	443	1200
7121/4-1	27.10.1984	447	1016
7121/4-2	14.04.1985	420	1068
7121/5-1	28.09.1985	460	1005
7121/5-2	06.07.1986	449	934
7121/5-3	09.03.2001	412	844
7121/7-1	05.08.1984	442	894
7121/7-2	12.08.1986	430	889
7121/8-1	15.07.2017	431	811
7121/9-1	29.11.2011	421	900
7122/2-1	11.11.1992	418	743
7122/4-1	13.01.1992	500	820
7122/6-1	11.11.1987	547	759
7122/6-2	19.09.2006	470	791
7122/7-1	05.10.2000	473	586
7122/7-2	19.10.2001	448	600
7122/7-6	04.01.2013	478	624
7122/7-7 S	26.12.2018	472	636
7122/10-1 S	28.09.2017	446	475
7123/4-1 A	14.05.2008	495	790
7123/4-1 S	21.04.2008	495	790
7124/3-1	20.10.1987	406	574
7124/4-1 S	12.10.2011	443	575
7125/1-1	30.12.1988	391	568
7125/4-1	07.03.2007	493	499
7216/11-1 S	14.09.2000	2397	4239
7218/8-1	10.04.2014	563	1852

7218/11-1	10.04.2013	662	1559
7219/8-1 S	26.12.1992	554	1545
7219/8-2	30.09.2013	497	1753
7219/9-1	25.02.1988	483	1468
7219/9-2	02.07.2017	479	2556
7219/9-3	29.07.2020	466	938
7219/11-1	02.02.2021	497	1930
7219/12-1	19.01.2017	485	1498
7219/12-1 A	28.02.2017	485	1673
7219/12-2 A	30.11.2017	484	1602
7219/12-2 S	07.11.2017	485	1548
7219/12-3 S	17.01.2018	475	1832
7220/2-1	10.10.2014	530	655
7220/4-1	25.02.2014	490	1294
7220/5-1	24.03.2012	478	1035
7220/5-2	08.07.2013	475	988
7220/6-2	04.11.2015	481	510
7220/6-2 R	22.11.2016	481	510
7220/7-1	24.01.2012	485	1316
7220/7-2 S	16.12.2013	455	980
7220/7-3 S	05.05.2014	466	1180
7220/7-4	14.03.2021	468	1219
7220/8-1	02.05.2011	455	1014
7220/10-1	16.10.2012	474	1272
7220/11-1	17.10.2014	447	556
7220/11-2	03.05.2015	465	587
7220/11-2 A	14.06.2015	465	587
7220/11-3	02.09.2015	492	575
7220/11-3 A	29.09.2015	492	575
7220/11-3 AR	10.10.2016	429	575
7220/11-4	17.07.2017	500	564
7220/11-4 A	28.08.2017	500	564
7220/11-5 S	08.10.2018	462	578
7224/7-1	19.06.1988	385	401
7227/10-1	10.11.2014	359	513
7316/5-1	05.10.1992	945	3752
7319/12-1	22.09.2014	480	988

Brønnbaner med kjerner

Brønnbane navn	Dato for boreslutt	Kjernelengde [m]
7117/9-1	16.07.1982	11
7216/11-1 S	14.09.2000	16
7219/9-2	02.07.2017	151
7316/5-1	05.10.1992	38
7319/12-1	22.09.2014	18