Generell informasjon

Litostrat. enhet	HERMOD FM
NPDID for litostrat. enhet	64
Nivå	FORMATION
Litostrat. enhet, forelder	ROGALAND GP

Nivå under

Litostrat. enhet

Beskrivelse

Hermod Formation

Name

Hermod was a son of Odin, and was known as "the quick one".

Well type section

Norwegian well 25/2-6 from 2361 m to 2221 m, coordinates N 59°45'33.55", E 02°33'05.96" (Fig 5.56). No cores.

Well reference section

UK well 10/1-1A from 2212 m to 2127 m, coordinates N 59°50'10.50", E 02°00'33.60" (Fig 5.48). No cores.

Thickness

The Hermod Formation is 140 m thick in the type well and 85 m thick in the reference well. It thickens towards the centre of its distribution area (Fig 5.47).

Lithology

The Hermod Formation consists of clean sandstones which are very fine to fine grained and clear to grey. The formation is to a limited extent interbedded with dark shales.

Basal stratotype

The lower boundary of the Hermod Formation is identified by a transition from the shales of the Lista Formation. This boundary essentially represents the boundary between the Lista and Sele formations, and the Hermod Formation may rest on shales of the Sele Formation. The log response in both cases is a sharp transition from the high gamma-ray readings and low velocity of the shales to the low and regular gamma-ray readings and higher velocity of the Hermod Formation sandstones (Fig 5.56). Where the Hermod Formation rests directly on the Heimdal Formation the boundary may be indistinct, but the log response changes from an erratic pattern in the Heimdal Formation to a smoother one, reflecting the more homogeneous sandstones of the Hermod Formation.

Characteristics of the upper boundary

The Hermod Formation is overlain by the time-equivalent Sele Formation, and the boundary is an abrupt change from sandstones to dark shales. The gamma-ray response changes from low readings in the sandstones to significantly higher ones in the Sele Formation, and the velocity is lower in the Sele Formation (Fig 5.56).

Distribution

The Hermod Formation is found in the South Viking Graben, in the northwestern part of quadrant 25. It may also be found in other parts of the South Viking Graben. The main distribution area is outlined in (Fig 5.47).

Age

Late Paleocene.

Depositional environment

The Hermod Formation was deposited in submarine fan systems connected with the deltaic Moray Group in the west.

Source

- 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.

Brønnbaner som penetrerer

Brønnbane navn	Dato for boreslutt	Topp dyp [m]	Bunn dyp [m]
15/3-1 S	06.07.1975	2215	2239
15/3-6	05.01.1999	2266	2347
16/1-1	10.12.1967	2316	2355
16/4-3	24.12.2000	2196	2197
16/4-3	24.12.2000	2207	2208
24/6-1	25.08.1985	2079	2083
24/9-3	15.04.1981	1981	2060
24/9-5	26.01.1994	2049	2082
24/9-5	26.01.1994	2098	2112
24/9-6	07.03.1994	2119	2137
24/9-9 A	15.10.2009	2861	2921
24/9-9 B	25.10.2009	2925	2983
24/9-9 S	07.10.2009	2202	2268
24/9-10 A	20.02.2011	2799	2881
24/9-10 S	02.02.2011	2211	2299
24/9-12 S	08.02.2018	2094	2150
24/9-13	16.07.2019	2166	2178
24/12-4	14.09.2001	2139	2207
25/1-1	22.07.1971	2195	2218
25/1-1	22.07.1971	2228	2245
25/1-2	25.08.1971	2108	2190
25/1-3	27.01.1972	2289	2492
25/1-7	26.05.1985	2290	2439
25/1-7 R	14.02.1987	2290	2439
25/1-7 R2	10.05.1988	2287	2436

25/1-7 R3	16.04.1989	2287	2436
25/1-7 R4	05.04.1990	2287	2436
25/1-8 S	25.07.1985	2329	2532
25/1-8 SR4	14.04.1991	2326	2529
25/1-8 SR3	06.04.1989	2326	2529
25/1-8 SR	18.02.1987	2329	2532
25/1-8 SR2	15.05.1988	2326	2529
25/1-9	12.10.1986	2402	2420
25/1-11 A	14.05.2010	2318	2349
25/1-11 R	26.04.2010	2244	2253
25/2-1	21.09.1973	2188	2360
25/2-2	11.07.1974	2269	2363
25/2-3	09.10.1974	2274	2427
25/2-4	20.10.1975	2250	2325
25/2-5	04.08.1976	2238	2374
25/2-6	15.11.1977	2221	2361
25/2-12	12.11.1988	2300	2350
25/2-12 A	06.04.1989	2300	2350
25/2-13	25.01.1990	2240	2400
25/2-14	30.03.1991	2211	2242
25/2-14	30.03.1991	2259	2304
25/2-15	13.01.1993	2208	2377
25/2-15 R	01.03.1993	2212	2381
25/2-15 R2	11.04.1993	2212	2381
25/2-18 A	19.10.2016	2327	2426
25/2-18 B	30.10.2016	2321	2448
25/2-18 C	17.11.2016	2308	2366
25/2-18 S	11.09.2016	2240	2326
25/2-19 A	08.10.2017	2380	2504
25/2-23 S	01.04.2022	2376	2532
25/4-10 S	10.11.2009	2671	2698
25/5-6	19.09.2009	2240	2309
25/6-3	11.11.1999	2083	2155
25/6-4 S	15.02.2012	2071	2141
25/7-2	18.07.1990	2216	2222
25/7-4 S	21.06.1997	2018	2121
25/7-5	30.08.1997	2044	2061
25/7-6	14.10.2000	2069	2082
25/7-7	09.11.2019	2204	2212
25/7-8 S	09.01.2020	2031	2153
25/7-9 S	15.02.2020	1932	1980

25/8-1	04.07.1970	1754	1763
25/8-3	17.04.1981	1753	1767
25/8-10 S	05.06.1997	1725	1741
25/8-11	02.12.1997	1765	1768
25/8-11	02.12.1997	1774	1796
25/8-12 S	09.06.1999	1785	1788
25/8-12 S	09.06.1999	1789	1802
25/8-20 B	28.05.2021	1980	2025
25/8-20 C	13.06.2021	1981	2007
25/8-20 S	10.05.2021	2023	2096
25/10-1	16.10.1969	1730	1745
25/10-1 R	03.08.1970	1730	1745
25/10-1 R	03.08.1970	1756	1762
25/10-3	13.09.1970	1808	1837
25/10-5	17.07.1981	1831	1848
25/10-17 S	10.02.2023	2277	2380
25/11-1	09.07.1967	1794	1817
25/11-2	24.09.1970	1780	1817
25/11-4	20.11.1970	1792	1816
25/11-5	08.05.1974	1731	1771
25/11-9	07.12.1980	1782	1783
25/11-9	07.12.1980	1789	1818
25/11-13	29.05.1981	1769	1817
25/11-19 S	18.05.1995	1891	1893
25/11-19 S	18.05.1995	1897	1985
25/11-19 SR	06.05.1997	1891	1893
25/11-19 SR	06.05.1997	1897	1985
25/11-23	28.05.1999	1796	1804
25/11-23	28.05.1999	1808	1864
25/11-25 A	10.03.2008	2074	2167
26/4-2	26.04.2004	2040	2093
30/4-3 S	09.10.2016	2122	2166
30/7-2	09.11.1975	1947	2025
30/7-2	09.11.1975	2048	2088
30/7-3	25.10.1976	2187	2280
30/7-7	01.07.1979	2217	2291
30/7-7	01.07.1979	2313	2320
30/8-2	14.01.1996	2076	2138
30/10-1	18.07.1973	2202	2289
30/10-1	18.07.1973	2340	2374
30/10-2	28.03.1974	2189	2256

30/10-3	31.08.1974	2188	2255
30/10-5	01.05.1975	2214	2262
30/10-5	01.05.1975	2310	2371
30/10-6	09.11.1992	2256	2318
30/10-7	17.10.1992	2183	2186
30/10-7	17.10.1992	2191	2193
30/10-7	17.10.1992	2202	2212
30/10-7	17.10.1992	2218	2232
30/10-7	17.10.1992	2236	2244
30/11-1	14.03.1975	2218	2354
30/11-3	14.03.1983	2205	2330
30/11-4	24.07.1984	2199	2345
30/11-5	09.01.1997	2222	2306
30/11-7	03.02.2009	2208	2319
30/11-7 A	25.05.2009	2208	2319
30/11-9 A	08.01.2014	2376	2575
30/11-9 S	13.11.2013	2260	2395
30/11-10	26.12.2014	2272	2296
30/11-10 A	13.02.2015	2282	2317
30/11-11 A	07.04.2016	2552	2711
30/11-11 S	19.03.2016	2251	2374
30/11-14	06.07.2016	2247	2280
30/11-14 B	23.07.2016	2700	2730
31/10-1	25.07.2014	2172	2207
35/10-3	14.07.1999	1948	1984

Brønnbaner med kjerner

Brønnbane navn	Dato for boreslutt	Kjernelengde [m]
15/3-6	05.01.1999	20
16/1-1	10.12.1967	28
24/9-5	26.01.1994	4
24/9-9 S	07.10.2009	54
24/9-10 S	02.02.2011	54
25/1-7	26.05.1985	7
25/6-3	11.11.1999	25
25/7-5	30.08.1997	16
25/7-6	14.10.2000	11
25/8-1	04.07.1970	9
25/8-10 S	05.06.1997	16
25/8-11	02.12.1997	19

25/10-1	16.10.1969	15
25/10-1 R	03.08.1970	30
25/11-19 S	18.05.1995	42
30/7-2	09.11.1975	14
30/8-2	14.01.1996	7
30/10-7	17.10.1992	12