



General information

Lithostrat. unit	HUGIN FM
NPDID lithostrat. unit	69
Level	FORMATION
Lithostrat. unit, parent	VESTLAND GP

Level below

Lithostrat. unit

Description



Hugin Formation

Name

One of Odin's two ravens in Norse mythology.

Well type section

Norwegian well [15/9-2](#) (Statoil) from 3483 m to 3657 m, coord N 58°25' 34.06" , E 01 °42'28.2" ([Fig 3.26](#)).

Well reference section

Norwegian well [15/6-5](#) (Esso) from 3627 m to 3679 m, coord N 58°30'29.67", E 01 °45' 50.4" ([Fig 3.28](#)).

Thickness

The formation is 174 m thick in the type well and 52 m thick in the reference well.

Lithogy

The formation consists of light brown to yellow, very fine to medium grained sandstones. Occasional coarse grained layers are found. The sandstones have fair sorting, and the grains are subangular to subrounded. Shale and siltstone partings are common. Carbonaceous material and coal fragments are abundant. Occasional thin coal beds can be observed. The sandstones are often bioturbated, but cross bedding can sometimes be observed. The sandstones are often calcareous and glauconitic.

Boundaries

The lower boundary represents the transition from the coaly [Sleipner Formation](#). The upper boundary represents the transition into the shales of the [Viking Group](#), giving clear breaks both on sonic and gamma ray logs.

Distribution

The formation is found in the southern Viking Graben, north of the Jæren High.

Age

Early Bathonian to Early Oxfordian.

Depositional environment

The formation represents near shore, shallow marine sandstones with the occasional influence of continental fluviodeltaic conditions.

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]
15/2-1	24.02.1982	4356	4393
15/3-1 S	06.07.1975	4986	5129
15/3-3	09.08.1979	4522	4545



15/3-4	30.03.1982	3786	3856
15/3-7	01.09.2001	4607	4793
15/3-9	13.08.2010	4475	4614
15/3-11	09.08.2018	3856	3959
15/3-12 S	20.01.2020	3647	3749
15/5-1	08.04.1978	3558	3616
15/5-2	16.12.1978	3960	3995
15/5-7	07.09.2008	3821	3919
15/5-7 A	13.10.2008	3973	4098
15/6-2 R	01.08.1974	3583	3638
15/6-5	29.11.1977	3627	3680
15/6-6	09.06.1982	3563	3621
15/6-7	08.06.1993	3391	3411
15/6-8 S	05.04.1997	3165	3174
15/6-9 A	13.06.2007	3570	3631
15/6-9 B	23.07.2007	3900	3950
15/6-9 S	27.05.2007	3741	3794
15/6-11 A	13.03.2011	4121	4201
15/6-11 S	19.12.2010	3869	3921
15/6-12	09.02.2011	3798	3810
15/6-13	15.05.2015	3460	3481
15/6-13 A	03.06.2015	3808	3817
15/6-14 S	26.12.2017	4628	4657
15/8-1	07.01.1982	3643	3945
15/8-2	21.10.2011	3882	4238
15/9-1	30.05.1977	3530	3616
15/9-2	17.06.1978	3483	3657
15/9-3	03.04.1979	3498	3622
15/9-4	14.06.1979	3441	3563
15/9-5	11.04.1980	3526	3693
15/9-6	07.09.1980	3762	3786
15/9-7	29.04.1981	3519	3721
15/9-8	25.05.1981	3446	3493
15/9-10	07.11.1981	3070	3127
15/9-11	23.12.1981	2795	2830
15/9-12	27.02.1982	3510	3694
15/9-13	27.05.1982	2764	2791
15/9-14	27.06.1982	3226	3254
15/9-18	02.03.1984	3237	3410
15/9-19 A	09.11.1997	3797	3966
15/9-19 B	02.02.1998	4036	4179



15/9-19 SR2	25.07.1997	4320	4343
15/9-19 SR	29.04.1993	4317	4340
15/9-21 S	23.05.1998	4767	5032
15/9-22	13.03.2006	3572	3713
15/12-1	06.09.1975	3123	3152
15/12-2	27.02.1976	2818	2868
15/12-4	31.10.1984	2912	3134
15/12-5	04.05.1986	2918	3077
15/12-6 S	04.11.1990	2871	2949
15/12-9 S	08.10.1992	3385	3620
15/12-11 S	19.05.1997	3395	3419
15/12-13	11.05.2003	3030	3047
15/12-13 B	11.06.2003	2963	3092
15/12-18 S	07.11.2007	3420	3443
15/12-21	21.05.2009	3031	3059
15/12-21 A	21.06.2009	3378	3412
15/12-22	16.05.2010	2831	2985
15/12-23 A	18.07.2010	4603	4632
15/12-26	13.05.2021	2764	2771
16/1-5	21.11.1998	2175	2247
16/1-14	30.11.2010	2472	2496
16/1-16	07.12.2012	2382	2429
16/1-16 A	01.01.2013	2527	2729
16/1-20 A	21.10.2013	2977	3049
16/1-24	16.03.2015	2290	2299
16/1-35 S	28.02.2023	2966	3098
16/2-8	19.08.2011	1911	1945
16/2-10	28.10.2011	1924	1962
16/2-12	06.09.2012	1930	1939
16/2-13 A	29.09.2012	2624	2626
16/2-13 S	30.08.2012	1941	1949
16/2-16	12.12.2012	1964	1966
16/2-16 A	07.02.2013	2346	2351
16/2-U-18	28.11.2016	1978	1981
16/4-10	07.03.2016	2465	2471
16/7-2	30.03.1982	2668	2692
16/7-3	27.07.1982	2344	2385
16/7-8 S	19.01.2003	2825	2856
16/10-1	14.07.1986	3005	3038
16/10-2	01.08.1991	2853	2923
16/10-3	01.12.1996	2521	2532



16/10-4	10.08.1998	2474	2547
24/6-1	25.08.1985	4478	4716
24/12-6 S	20.12.2010	5029	5120
25/1-1	22.07.1971	4560	4570
25/2-4	20.10.1975	3640	3752
25/2-5	04.08.1976	3336	3407
25/2-6	15.11.1977	3241	3257
25/2-7	12.07.1982	3406	3418
25/2-12	12.11.1988	3686	3713
25/2-12 A	06.04.1989	3715	3865
25/2-13	25.01.1990	3342	3409
25/2-14	30.03.1991	3135	3156
25/2-15 R2	11.04.1993	3574	3611
25/2-16 S	13.09.2001	3796	3921
25/2-18 A	19.10.2016	3698	3826
25/2-18 B	30.10.2016	3977	4100
25/2-18 C	17.11.2016	3887	4029
25/2-18 S	11.09.2016	3432	3557
25/2-19 A	08.10.2017	3795	3919
25/3-1	05.09.1989	3107	3120
25/4-1	09.12.1972	3185	3190
25/4-5	26.03.1981	3692	3730
25/4-6 S	24.08.1991	3716	3874
25/4-6 SR	14.09.2003	3725	3883
25/5-1	01.08.1987	2984	2996
25/5-1 A	16.09.1987	3312	3329
25/5-2	04.07.1989	3186	3194
25/5-3	26.03.1990	2384	2431
25/5-4	07.03.1991	2895	2920
25/6-1	03.02.1986	2277	2290
25/6-2	29.05.1992	2324	2345
25/6-4 S	15.02.2012	2810	2841
25/6-5 S	10.04.2015	2459	2496
25/6-6 S	22.04.2019	2611	2657
25/7-2	18.07.1990	4407	4613
25/7-8 S	09.01.2020	2802	2847
25/8-5 S	22.09.1994	2836	2878
25/8-5 SR	03.08.1997	2836	2878
25/8-7	12.08.1995	2318	2329
25/8-9	28.01.1997	2432	2477
25/9-1	22.04.1995	2185	2202



25/9-2 S	03.08.2003	2183	2190
25/9-3	20.09.2009	2103	2113
25/9-4	27.02.2014	2372	2391
25/10-6 S	22.03.1996	4338	4489
25/10-8	07.04.1997	2511	2536
25/10-9	27.07.2009	2918	2961
25/10-11	10.08.2011	4351	4435
25/10-11	10.08.2011	4501	4562
25/10-12 S	18.01.2015	2153	2174
25/10-15 S	02.08.2016	2552	2564
25/10-16 A	09.08.2018	3613	3627
25/10-16 B	18.08.2018	4821	4832
25/10-16 C	26.08.2018	4253	4277
25/10-16 S	30.07.2018	2641	2655
25/10-17 S	10.02.2023	3654	3751
26/4-1	17.07.1987	2753	2820
30/11-4	24.07.1984	3434	3668

Wellbores with cores

Wellbore name	Wellbore completion date	Core length [m]
15/2-1	24.02.1982	22
15/3-1 S	06.07.1975	2
15/3-4	30.03.1982	47
15/3-7	01.09.2001	46
15/3-9	13.08.2010	32
15/3-11	09.08.2018	91
15/3-12 S	20.01.2020	97
15/5-1	08.04.1978	45
15/5-7	07.09.2008	93
15/6-2 R	01.08.1974	55
15/6-5	29.11.1977	50
15/6-6	09.06.1982	30
15/6-8 S	05.04.1997	2
15/6-9 S	27.05.2007	33
15/6-11 A	13.03.2011	33
15/6-13	15.05.2015	15
15/8-1	07.01.1982	47
15/9-1	30.05.1977	80
15/9-2	17.06.1978	157



15/9-3	03.04.1979	68
15/9-4	14.06.1979	123
15/9-5	11.04.1980	133
15/9-6	07.09.1980	10
15/9-7	29.04.1981	153
15/9-8	25.05.1981	45
15/9-10	07.11.1981	19
15/9-12	27.02.1982	163
15/9-13	27.05.1982	26
15/9-14	27.06.1982	7
15/9-18	02.03.1984	30
15/9-19 A	09.11.1997	127
15/9-19 B	02.02.1998	67
15/9-19 SR	29.04.1993	12
15/9-21 S	23.05.1998	76
15/12-1	06.09.1975	26
15/12-2	27.02.1976	12
15/12-4	31.10.1984	8
15/12-5	04.05.1986	49
15/12-6 S	04.11.1990	76
15/12-9 S	08.10.1992	165
15/12-11 S	19.05.1997	19
15/12-21	21.05.2009	5
15/12-23 A	18.07.2010	18
16/1-16	07.12.2012	43
16/1-20 A	21.10.2013	45
16/2-8	19.08.2011	34
16/2-10	28.10.2011	39
16/2-12	06.09.2012	9
16/2-13 A	29.09.2012	3
16/2-13 S	30.08.2012	8
16/2-16	12.12.2012	2
16/2-16 A	07.02.2013	3
16/7-2	30.03.1982	16
16/7-3	27.07.1982	22
16/7-8 S	19.01.2003	3
16/10-4	10.08.1998	23
24/6-1	25.08.1985	54
25/2-4	20.10.1975	44
25/2-5	04.08.1976	19
25/2-6	15.11.1977	4



25/2-7	12.07.1982	5
25/2-12	12.11.1988	24
25/2-13	25.01.1990	51
25/2-14	30.03.1991	21
25/2-15 R2	11.04.1993	27
25/2-18 S	11.09.2016	123
25/3-1	05.09.1989	8
25/4-1	09.12.1972	2
25/4-5	26.03.1981	35
25/4-6 S	24.08.1991	155
25/5-1	01.08.1987	6
25/5-2	04.07.1989	8
25/5-3	26.03.1990	18
25/5-4	07.03.1991	16
25/6-1	03.02.1986	1
25/7-2	18.07.1990	27
25/8-7	12.08.1995	10
25/8-9	28.01.1997	37
25/9-1	22.04.1995	10
25/10-6 S	22.03.1996	13
25/10-8	07.04.1997	18
25/10-11	10.08.2011	18
25/10-12 S	18.01.2015	17
26/4-1	17.07.1987	28
30/11-4	24.07.1984	17