



Generell informasjon

Brønnbane navn	25/8-19 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	25/8-19
Seismisk lokalisering	PGS16M01-PGS15917VIK (IL 36471. XL 132652)
Utvinningstillatelse	820 S
Boreoperatør	MOL Norge AS
Boretillatelse	1805-L
Boreinnretning	DEEPSEA BERGEN
Boredager	80
Borestart	31.12.2019
Boreslutt	19.03.2020
Plugget og forlatt dato	19.03.2020
Frigitt dato	19.03.2022
Publiseringsdato	08.08.2022
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE TRIASSIC
1. nivå med hydrokarboner, formasjon.	SKAGERRAK FM
2. nivå med hydrokarboner, alder	PALEOCENE
2. nivå med hydrokarboner, formasjon	HEIMDAL FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	126.0
Totalt målt dybde (MD) [m RKB]	2950.0
Totalt vertikalt dybde (TVD) [m RKB]	2636.0
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	59° 20' 13.21" N



ØV grader	2° 21' 53.27" E
NS UTM [m]	6577903.13
ØV UTM [m]	463861.92
UTM sone	31
NPDID for brønnbanen	8981

Brønnhistorie

**General**

Well 25/8-19 A was drilled as an appraisal well on the 25/8-19 S Evra discovery on the southern part of the Heimdal Terrace in the North Sea. Well 25/8-19 S found oil and gas in several intervals from Paleocene to Basement. The primary objective was to investigate the hydrocarbon bearing intervals encountered in well 25/8-19 S, find the oil-water contact and to perform a well test in the Skagerrak Formation.

Operations and results

Appraisal well 25/8-19 A was kicked off from 1017 m in well 25/8-19 S on 31 December 2019. It was drilled with the semi-submersible installation Deepsea Bergen to 2950 m (2636.9 m TVD) in Basement rock. Hole problems led to plug back and drilling of a side-track for the planned well test. The side-track 25/8-19 A T2 was kicked off at 1960 m on 2 February 2020 and drilled to final TD at 2975 m (2567.8 m TVD) in Basement rock. The well was drilled with RheGuard oil-based mud from kick-off to TD.

The well encountered thin gas and oil-bearing sandstone injectite layers totalling 8 metres from 1760 to 1810 m in the lowermost Hordaland Group and in the Balder Formation at 1818 m. Thin, oil-bearing sandstones were encountered also throughout the Heimdal Formation. The Upper and Middle-Lower Statfjord units came in with water-bearing sandstones of about 50 and 30 metres, respectively. A total of 18 metres of gas and oil-filled sandstone layers were encountered in the Skagerrak Formation between 2615 and 2806 m. No oil/water contact was proven in the Skagerrak Formation. The well confirmed oil-bearing basement. No oil/water contact was proven in basement.

In addition to the hydrocarbon-bearing intervals, oil shows with direct and cut fluorescence were observed in the lower Ty Formation as well as in the lower - middle Statfjord Group.

Four cores were cut in the 25/8-19 A wellbore. Core 1 was cut from 2001 to 2029 m in the Heimdal Formation with 100% recovery. Core 2 was cut from 2373 to 2390 m in the lower Statfjord Group with 99.24% recovery. Cores 3 and 4 were cut in succession from 2798 to 2823.1 m in the Skagerrak Formation and Basement with 100 % and 94.63% recoveries, respectively. In wellbore 25/8-19 A MDT fluid samples were taken in the Eocene at 1770 m (gas) and 1801.51 m (oil). In the side-track wellbore 25/8-19 A T2 an MDT sample was taken at 2654 m in the Skagerrak Formation (oil).

Metrol pressure and temperature gauges were installed at 2625 mm with repeaters at 1454 m and 625 m, as part of the plugging. The well was permanently abandoned on 19 March 2020 as an oil and gas appraisal well.

Testing

One DST was performed in the interval 2651 to 2697 m in the Skagerrak Formation. The test was performed in the 25/8-19 A T2 wellbore. The test produced in the high flow period 475 Sm³/day with an average GOR of 175 Sm³/Sm³ through a 32/64-inch choke. Based on downhole measurements during the test the temperature at mid perforations was 95.6 °C.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1020.00	2974.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2001.0	2029.0	[m]
2	2373.0	2389.5	[m]
3	2798.0	2812.5	[m]
4	2812.5	2822.5	[m]

Total kjerneprøve lengde [m]	69.0
Kjerner tilgjengelig for prøvetaking?	YES

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST		0.00	0.00			YES
DST		0.00	0.00	OIL	05.03.2020 - 15:15	YES
MDT		1801.51	0.00	OIL	06.01.2020 - 00:00	YES
MDT		2654.00	0.00	OIL	09.02.2020 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
149	NORDLAND GP
149	UNDIFFERENTIATED
488	UTSIRA FM
679	HORDALAND GP
679	SKADE FM
998	UNDIFFERENTIATED
1123	GRID FM
1153	UNDIFFERENTIATED
1810	ROGALAND GP



1810	BALDER FM
1897	SELE FM
1957	LISTA FM
1986	HEIMDAL FM
2019	LISTA FM
2051	VÅLE FM
2071	TY FM
2187	DUNLIN GP
2187	AMUNDSEN FM
2211	STATFJORD GP
2211	NANSEN FM
2286	EIRIKSSON FM
2483	HEGRE GP
2483	SKAGERRAK FM
2806	BASEMENT

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT TLD HNGS	1810	2446
GR CMR MDT	1711	1912
LWD - DIR PWD GR DEN NEU RES SON	1017	1923
LWD - RES GR DIR PWD DEN NEU	1923	2949
NGI MAST 2PPC	1010	2446
NGI MAST 3PPC ROBN	0	2446
ROBN PPC MDT NEXT NGI GR	1915	2408
XL ROCK GR	1705	1915

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
SURF.COND.	13 3/8	1009.5	17 1/2	1009.5	1.74	FIT
INTERM.	9 5/8	1883.0	12 1/4	1883.0	1.61	LOT
OPEN HOLE		2637.0	8 1/2	2637.0	0.00	

Tynnslip i Sokkeldirektoratet



Dybde	Enhet
1892.30	[m]
1888.50	[m]
1886.20	[m]
1884.00	[m]
1862.00	[m]
1845.40	[m]
1843.50	[m]
1834.00	[m]
1819.00	[m]
1815.40	[m]
1804.70	[m]
1803.50	[m]
1801.50	[m]
1787.50	[m]
1776.20	[m]
1770.00	[m]
1762.50	[m]
1752.50	[m]
1757.50	[m]
1739.20	[m]
1705.00	[m]
2822.44	[m]
2820.60	[m]
2820.08	[m]
2819.30	[m]
2818.60	[m]
2817.41	[m]
2816.23	[m]
2815.49	[m]
2814.24	[m]
2814.04	[m]
2813.27	[m]
2812.68	[m]
2812.08	[m]
2811.75	[m]
2810.57	[m]
2809.86	[m]
2808.42	[m]
2807.25	[m]



2806.95	[m]
2806.25	[m]
2805.50	[m]
2805.02	[m]
2804.75	[m]
2804.25	[m]
2804.02	[m]
2802.50	[m]
2802.02	[m]
2801.75	[m]
2801.30	[m]
2800.86	[m]
2799.24	[m]
2799.02	[m]
2798.35	[m]
2383.63	[m]
2382.73	[m]
2302.50	[m]
2382.05	[m]
2831.35	[m]
2380.50	[m]
2380.11	[m]
2379.34	[m]
2376.80	[m]
2376.26	[m]
2375.80	[m]
2375.15	[m]
2374.22	[m]
2373.78	[m]
2373.03	[m]
2028.40	[m]
2023.61	[m]
2022.14	[m]
2021.87	[m]
2021.45	[m]
2020.62	[m]
2018.08	[m]
2017.18	[m]
2013.50	[m]
2012.20	[m]



2010.75	[m]
2010.53	[m]
2009.82	[m]
2008.22	[m]
2007.90	[m]
2006.28	[m]
2005.70	[m]
2004.03	[m]
2003.28	[m]
2001.42	[m]