



Generell informasjon

Brønnbane navn	25/8-19 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	25/8-19 S (Iving)
Brønn navn	25/8-19
Seismisk lokalisering	PGS16M01-PGS15917VIK (IL 36471. XL 132652)
Utvinningstillatelse	820 S
Boreoperatør	MOL Norge AS
Boretillatelse	1795-L
Boreinnretning	DEEPSEA BERGEN
Boredager	59
Borestart	02.11.2019
Boreslutt	30.12.2019
Plugget dato	30.12.2019
Frigitt dato	30.12.2021
Publiseringsdato	22.12.2021
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	EIRIKSSON FM
2. nivå med hydrokarboner, alder	LATE TRIASSIC
2. nivå med hydrokarboner, formasjon	SKAGERRAK FM
3. nivå med hydrokarboner, alder	PALEOCENE
3. 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]	2760.0
Totalt vertikalt dybde (TVD) [m RKB]	2545.0



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	8932

Brønnhistorie

Operations and results

A 9-7/8" shallow gas pilot hole was drilled to 1015 m in the Hordaland Group, just below the Skade Formation. No shallow gas was encountered.

Wildcat well 25/8-19 S was spudded with the semi-submersible installation Deepsea Bergen on 2 November 2019 and drilled to TD at 2760 m (2545 m TVD) m in Basement rock. Operations proceeded mostly as planned, but while drilling the final 6" hole to final TD the top drive service loop was damaged by a fire. Waiting for new parts and repairs caused one week NPT. The well was drilled with seawater and hi-vis pills down to 1015 m and with RheGuard oil-based mud from 1015 m to TD.

No injectite sandstone was encountered in the Eocene. Thin oil-bearing sandstone layers were found in the Paleocene Heimdal Formation, confirmed by MDT sampling. The Ty Formation massive sandstones were water-bearing, but sidewall cores indicated shows above OBM in the more porous intervals (5 - 12 % porosity). The Ty Formation sands rest unconformably on the Early Jurassic Amundsen Formation. The Amundsen Formation is a ca 20 m thick claystone unit separating the massive Ty sandstones from massive Upper Statfjord sandstones. The Upper and Middle Statfjord Group sandstones were water-bearing down to 2356 m, but good shows with bleeding oil was seen on the core from this section. Oil-bearing sandstones were encountered in the Lower Statfjord unit and pressure gradients indicated an OWC at 2386 m (2233.3 m TVD). Below this OWC an isolated pocket of oil was proven by sampling in a thin sand at 409.5 m. A 34-metre gas column in sandstone with moderate to good reservoir quality lies over an oil column of minimum 45 metres in sandstones in the Skagerrak Formation. The OWC was not encountered. Weathered and partly fractured crystalline basement is oil-bearing with a column a minimum of 41 metres.

Four cores were cut. Core 1 was cut from 2252.6 to 2277.3 m in the Statfjord Group with 99.8% recovery. Cores 2, 3 and 4 were cut in succession from 2575 to 2662.2 m in the Skagerrak Formation with 99.7 to 101.2% recoveries. MDT fluid sample were taken at 2036.79 m (Oil), 2255 m (water), 2382.94 m (oil), 2385.4 m (water), 2409.5 m (oil), 2428.49 m (water), 2596.7 m (gas), 2598.75 m (oil), 2611.5 m (oil), 2688.02 m (oil), and 2735.02 m (oil). Contamination with mud filtrate in the samples varied from 3.6 to 36 %wt. The least contaminated oil samples are from 2036,79 m, 2382,94 m and 2611,5 m.

The well was plugged back for side-tracking of 25/8-19 A on 30 December 2019. It is classified as an oil and gas discovery well.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1020.00	2760.00
Borekaks tilgjengelig for prøvetaking?	YES

Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2252.6	2277.3	[m]
2	2575.0	2603.5	[m]
3	2603.5	2632.9	[m]
4	2632.9	2662.7	[m]

Total kjerneprøve lengde [m]	112.4
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
MDT		0.00	0.00			YES
MDT		2036.79	0.00	OIL	30.11.2019 - 00:00	YES
MDT		2382.94	0.00	OIL	09.02.2020 - 00:00	YES
MDT		2409.53	0.00	OIL	05.12.2019 - 00:00	YES
MDT		2611.50	0.00	OIL	05.12.2019 - 00:00	YES
MDT		2688.02	0.00	OIL	23.12.2019 - 00:00	YES
MDT		2735.02	0.00	OIL	23.12.2019 - 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
1128	GRID FM
1154	ROGALAND GP
1154	BALDER FM
1164	UNDIFFERENTIATED
1936	SELE FM
1992	LISTA FM
2027	HEIMDAL FM
2061	LISTA FM
2113	VÅLE FM
2123	TY FM
2227	DUNLIN GP
2227	AMUNDSEN FM
2245	STATFJORD GP
2245	NANSEN FM
2263	EIRIKSSON FM
2434	HEGRE GP
2434	SKAGERRAK FM
2716	BASEMENT

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - DIR PWD GR RES	149	1015
LWD - DIR PWD GR RES SON	149	1015
LWD - GR DIR PWD DEN NEU RES SON	2675	2760
LWD - GR PWD DIR DEN NEU RES SON	1015	2675
MDT	2001	2670
MDT DPS	2686	2749



MDT MINIDST	2032	2666
MSCT	2001	2670
MSCT	2680	2758
NFXT CMR	2001	2670
TLD HGNS	2658	2768
TLD HGNS PPC MAST PPC	2001	2670
UBI NGI	2668	2760
USIT CBL	1221	1957
XL ROCK	2001	270
ZAIT MAST	2653	2769
ZAIT NGI	2001	2670

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
CONDUCTOR	30	215.0	36	215.0	0.00	
SURF.COND.	20	1009.5	26	1009.5	1.74	FIT
INTERM.	9 5/8	1914.4	12 1/4	1914.0	1.93	LOT
LINER	7	2473.0	8 1/2	2473.0	1.50	FIT
OPEN HOLE		2545.0	6	2545.0	0.00	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
2310.28	[m]
3228.42	[m]
2350.31	[m]
2364.23	[m]
2395.30	[m]
2410.65	[m]
2415.68	[m]
2427.51	[m]
2442.33	[m]
2454.18	[m]
2475.91	[m]
2499.50	[m]
2517.86	[m]
2545.75	[m]



2563.19	[m]
2682.30	[m]
2685.02	[m]
2726.47	[m]
2727.00	[m]
2728.00	[m]
2730.01	[m]
2733.54	[m]
2736.61	[m]
2739.51	[m]
2743.06	[m]
2745.48	[m]
2747.00	[m]
2747.50	[m]
2749.34	[m]
2751.00	[m]
2752.00	[m]
2755.52	[m]
2758.54	[m]
2725.53	[m]
2722.50	[m]
2719.98	[m]
2715.48	[m]
2710.01	[m]
2695.99	[m]
2686.50	[m]
2690.50	[m]
2680.00	[m]
2293.33	[m]
2281.30	[m]
2252.18	[m]
2247.66	[m]
2244.15	[m]
2239.13	[m]
2226.09	[m]
2223.09	[m]
2219.41	[m]
2214.16	[m]
2199.31	[m]
2182.47	[m]



2156.68	[m]
2126.69	[m]
2117.93	[m]
2050.85	[m]
2036.79	[m]
2034.77	[m]
2017.74	[m]
2662.75	[m]
2661.51	[m]
2660.22	[m]
2659.35	[m]
2658.60	[m]
2657.34	[m]
2656.37	[m]
2655.60	[m]
2654.82	[m]
2653.89	[m]
2652.82	[m]
2652.08	[m]
2651.12	[m]
2649.75	[m]
2647.35	[m]
2645.37	[m]
2642.91	[m]
2638.87	[m]
2637.90	[m]
2637.40	[m]
2636.41	[m]
2635.11	[m]
2631.67	[m]
2630.50	[m]
2628.82	[m]
2627.20	[m]
2626.37	[m]
2625.38	[m]
2624.48	[m]
2623.90	[m]
2623.15	[m]
2622.81	[m]
2622.08	[m]



2621.40	[m]
2620.75	[m]
2618.60	[m]
2616.60	[m]
2615.85	[m]
2615.06	[m]
2614.50	[m]
2613.75	[m]
2613.25	[m]
2612.50	[m]
2611.75	[m]
2611.12	[m]
2611.05	[m]
2610.50	[m]
2610.28	[m]
2609.48	[m]
2608.75	[m]
2608.50	[m]
2607.80	[m]
2607.60	[m]
2606.50	[m]
2606.21	[m]
2605.50	[m]
2604.55	[m]
2603.75	[m]
2603.41	[m]
2601.75	[m]
2601.02	[m]
2600.25	[m]
2599.95	[m]
2599.25	[m]
2598.60	[m]
2598.02	[m]
2597.25	[m]
2596.75	[m]
2595.95	[m]
2595.50	[m]
1.00	[m]
2594.95	[m]
2594.75	[m]



2593.50	[m]
2592.50	[m]
2591.51	[m]
2588.77	[m]
2587.02	[m]
2586.02	[m]
2585.02	[m]
2584.95	[m]
2583.25	[m]
2582.50	[m]
2581.95	[m]
2580.02	[m]
2579.50	[m]
2579.02	[m]
2578.45	[m]
2577.53	[m]
2576.73	[m]
2576.02	[m]
2575.03	[m]
2276.24	[m]
2275.40	[m]
2274.49	[m]
2272.20	[m]
2271.50	[m]
2271.02	[m]
2270.51	[m]
2269.50	[m]
2268.25	[m]
2267.28	[m]
2266.75	[m]
2260.02	[m]
2265.02	[m]
2264.62	[m]
2264.25	[m]
2263.50	[m]
2262.02	[m]
2261.50	[m]
2260.40	[m]
2259.50	[m]
2257.25	[m]



2255.03	[m]
2254.03	[m]
2252.85	[m]
2252.62	[m]