

**General information**

Wellbore name	25/8-19 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	25/8-19 S (Iving)
Well name	25/8-19
Seismic location	PGS16M01-PGS15917VIK (IL 36471. XL 132652)
Production licence	820 S
Drilling operator	MOL Norge AS
Drill permit	1795-L
Drilling facility	DEEPSEA BERGEN
Drilling days	59
Entered date	02.11.2019
Completed date	30.12.2019
Plugged date	30.12.2019
Release date	30.12.2021
Publication date	22.12.2021
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	EIRIKSSON FM
2nd level with HC, age	LATE TRIASSIC
2nd level with HC, formation	SKAGERRAK FM
3rd level with HC, age	PALEOCENE
3rd level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	23.0
Water depth [m]	126.0
Total depth (MD) [m RKB]	2760.0
Final vertical depth (TVD) [m RKB]	2545.0
Oldest penetrated formation	BASEMENT
Geodetic datum	ED50
NS degrees	59° 20' 13.21" N



EW degrees	2° 21' 53.27" E
NS UTM [m]	6577903.13
EW UTM [m]	463861.92
UTM zone	31
NPDID wellbore	8932

Wellbore history

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.

Cuttings at the Norwegian Offshore Directorate



Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1020.00	2760.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
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 core sample length [m]	112.4
Cores available for sampling?	YES

Oil samples at the Norwegian Offshore Directorate

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
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

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
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

Logs

Log type	Log top depth [m]	Log bottom depth [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

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
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	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
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]

