



General information





Wellbore name	2/9-6 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
Well name	2/9-6
Seismic location	MC3D_CGR2013RM (inline44278/Xline106303)
Production licence	617
Drilling operator	MOL Norge AS
Drill permit	1840-L
Drilling facility	MAERSK INTEGRATOR
Drilling days	39
Entered date	08.01.2021
Completed date	15.02.2021
Plugged and abandon date	15.02.2021
Release date	07.01.2022
Publication date	07.01.2022
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	55.8
Water depth [m]	70.0
Total depth (MD) [m RKB]	4330.0
Final vertical depth (TVD) [m RKB]	4305.0
Maximum inclination [°]	12.2
Bottom hole temperature [°C]	141
Oldest penetrated age	LATE JURASSIC
Oldest penetrated formation	FARSUND FM
Geodetic datum	ED50
NS degrees	56° 21' 35.17" N
EW degrees	3° 53' 5.15" E
NS UTM [m]	6246612.18
EW UTM [m]	554668.93
UTM zone	31
NPDID wellbore	9191



Wellbore history

General

Well 2/9-6 S was drilled to test the Eidsvoll prospect on the Piggvar Terrace in the southern North Sea. The primary objective was to test the hydrocarbon potential in Late Jurassic sandstones.

Operations and results

A 9 7/8" pilot hole was drilled to 1010 m. No shallow gas or water flow was observed. Wildcat well 2/9-6 S was spudded with the jack-up installation Maersk Integrator on 8 January 2021 and drilled to TD at 4330 m (4305 m TVD) in the Late Jurassic Farsund Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1010 m, and with RheGuard Prime oil-based mud from 1010 m to TD.

The Tyne Group was encountered at 3890 m (3865.8 m TVD) with the target Eidsvoll sandstone unit (Mandal fm) on top down to 4143 m (4118.8 m TVD). The unit is dated Volgian to late Ryazanian. Approximately 121 metres of this was reservoir rocks with poor to moderate reservoir properties. Oil shows in the form of direct and cut fluorescence were recorded in this unit from 3896 to 4283 m. Traces of petroleum were registered in the upper part of the unit where some live hydrocarbons were recorded by MDT fluid scanning. Hydrocarbon odour was noted on the cores and HCS core scanning indicated a light to medium oil mostly migrated, but also generated locally from in-situ shales. Else, no oil shows were seen in the well.

Two cores were cut in succession from 3940.2 to 4012.8 m with 100% recovery. MDT fluid scanning was undertaken at 3912.61 m (mud filtrate and live hydrocarbons) and a water sample was taken at 3990.48 m.

The well was permanently abandoned on 15 February 2021 as a dry well with shows.

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	4330.00

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	3940.2	3976.8	[m]
2	3976.8	4012.8	[m]



Total core sample length [m]	72.6
Cores available for sampling?	YES

Comments	B-cutt på plass SS-12-A.
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
127	NORDLAND GP
127	UNDIFFERENTIATED
1625	HORDALAND GP
1625	NO FORMAL NAME
3035	ROGALAND GP
3035	BALDER FM
3052	SELE FM
3095	LISTA FM
3128	VÅLE FM
3150	SHETLAND GP
3150	EKOFISK FM
3237	TOR FM
3521	HOD FM
3674	CROMER KNOLL GP
3674	RØDBY FM
3687	TUXEN FM
3799	ÅSGARD FM
3890	TYNE GP
3890	MANDAL FM
4175	FARSUND FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DIR PWD GR RES	127	1010
LWD - DIR PWD GR RES FPWD ECD -	1905	4330



LWD - DIR PWD GR RES SON	127	1905
LWD - SON SEIS DEN NEU	1905	4330
MDT CMR GR	3850	4295
NEXT HNGS MSIP	0	0

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
INTERM.	22	1003.5	26	1010.0	1.73	LOT
INTERM.	13 3/8	1898.5	16	1905.0	1.79	FIT
INTERM.	9 7/8	3838.8	12 1/4	3846.0	1.90	FIT
OPEN HOLE		4330.0	8 1/2	4330.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
168	1.03		4.0	Water	
1010	1.30		4.0	Water	
1013	1.39		4.2	Oil	
1905	1.55		4.7	Oil	
3105	1.60		7.6	Oil	
3492	1.55		4.5	Oil	
3781	1.64		5.0	Oil	
3862	1.70		4.7	Oil	
4330	1.70		7.5	Oil	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
3941.95	[m]
3948.95	[m]
3954.95	[m]
3964.95	[m]
3966.95	[m]
3971.50	[m]
3972.62	[m]
3973.32	[m]



3974.07	[m]
3975.33	[m]
3975.82	[m]
3976.20	[m]
3977.34	[m]
3977.58	[m]
3978.36	[m]
3978.80	[m]
3979.62	[m]
3980.28	[m]
3980.66	[m]
3981.25	[m]
3982.25	[m]
3982.80	[m]
3984.32	[m]
3984.56	[m]
3985.19	[m]
3985.56	[m]
3986.25	[m]
3986.75	[m]
3987.25	[m]
3988.02	[m]
3988.75	[m]
3989.60	[m]
3989.80	[m]
3990.25	[m]
3990.75	[m]
3991.50	[m]
3992.02	[m]
3992.50	[m]
3992.75	[m]
3993.40	[m]
3994.25	[m]
3994.75	[m]
3995.25	[m]
3995.75	[m]
3996.02	[m]
3997.06	[m]
3997.50	[m]
3998.43	[m]



3998.82	[m]
3999.25	[m]
4000.45	[m]
4000.85	[m]
4001.25	[m]
4002.02	[m]
4002.56	[m]
4003.50	[m]
4003.83	[m]
4004.25	[m]
4004.78	[m]
4005.40	[m]
4006.80	[m]
4007.20	[m]
4007.60	[m]
4008.25	[m]
4008.75	[m]
4009.25	[m]
4010.02	[m]
4010.75	[m]
4011.25	[m]
4011.95	[m]
4012.75	[m]
3913.00	[m]
3916.00	[m]
3934.00	[m]
4024.00	[m]
4036.00	[m]
4045.00	[m]
4066.00	[m]
4090.00	[m]
4129.00	[m]
3956.95	[m]
3931.00	[m]