



General information

Wellbore name	8/10-7 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	8/10-7
Seismic location	CE1202R15. Inline 1064. Crossline 2365
Production licence	405
Drilling operator	Spirit Energy Norway AS
Drill permit	1736-L
Drilling facility	MAERSK INTERCEPTOR
Drilling days	32
Entered date	04.12.2018
Completed date	04.01.2019
Plugged and abandon date	04.01.2019
Release date	05.03.2020
Publication date	05.03.2020
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	55.0
Water depth [m]	66.0
Total depth (MD) [m RKB]	3155.0
Final vertical depth (TVD) [m RKB]	2973.0
Oldest penetrated age	PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	57° 6' 54.72" N
EW degrees	3° 3' 31.45" E
NS UTM [m]	6330353.15
EW UTM [m]	503557.24
UTM zone	31
NPDID wellbore	8619



Wellbore history

Well 8/10-7 S was drilled to test the Cassidy prospect on the Sørvestlandet High, about five kilometres north of the Oda field in the North Sea. The objective was to prove petroleum in the Late Jurassic Ula formation and to assess the reservoir properties in any other Jurassic and Triassic intervals in the Cassidy prospect.

Operations and results

Wildcat well 8/10-7 S was spudded with the jack-up installation Mærsk Interceptor on 4 December 2018 and drilled to TD at 3155 m (2973 m TVD) m in the Permian Zechstein Group. A 9 7/8" pilot hole was drilled from seabed to 800 m to evaluate the possibility of shallow gas. No gas was observed during drilling. However, when pulling out of hole after section TD, bubbles were detected in the water column by the ROV sonar and then confirmed visually with the ROV around the well. The gas was interpreted to be a hydrostatically pressured dissolved gas, swabbed in by a packed BHA inside a small annulus. Drilling operations proceeded without significant problems. The well was drilled with seawater with hi-vis pills Glydril displacement mud down to 800 m and with EMS-4600 oil-based mud from 800 m to TD.

The well encountered the Ula formation at 2938 m, 16 m thick and without any hydrocarbon indications. The overlying Farsund Formation was silty with traces of fine sand, while the Triassic intervals consisted of tight claystone. The well is dry. Oil shows were inconclusive due to the use of oil-based mud

No cores were cut. No pressure points or fluid samples were taken due to difficult bore hole conditions.

The well was permanently abandoned on 4 January 2019 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
810.00	3155.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
121	NORDLAND GP
121	UNDIFFERENTIATED
1405	HORDALAND GP
1405	UNDIFFERENTIATED



2327	ROGALAND GP
2327	BALDER FM
2346	SELE FM
2357	LISTA FM
2486	VIDAR FM
2518	SHETLAND GP
2518	EKOFISK FM
2593	TOR FM
2682	HOD FM
2732	CROMER KNOLL GP
2732	RØDBY FM
2754	SOLA FM
2774	TUXEN FM
2782	ÅSGARD FM
2879	TYNE GP
2879	MANDAL FM
2905	FARSUND FM
2938	VESTLAND GP
2938	ULA FM
2954	HEGRE GP
2954	SMITH BANK FM
3146	ZECHSTEIN GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT PEX PPC MSIP PPC	2885	3150
LWD - DI	121	198
LWD - GR PWD RES DI	198	800
LWD - GR PWD RES DI	2159	2393
LWD - GR PWD RES DI SON	121	800
LWD - GR PWD RES DI SON	800	2159
LWD - GR PWD RES DI SON DEN NEU	2393	2887
LWD - PWD RES GR DI DEN NEU	2887	3155

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	192.0	36	198.0	0.00	
SURF.COND.	20	793.7	26	800.0	2.03	FIT
PILOT HOLE		800.0	9 7/8	800.0	0.00	
INTERM.	13 3/8	2386.4	16	2393.0	1.93	LOT
INTERM.	9 5/8	2883.0	12 1/4	2887.0	1.98	LOT
OPEN HOLE		3155.0	8 1/2	3155.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
800	1.02			Sweeps	
2463	1.54	30.0		EMS-4600	
2878	1.57	34.0		EMS-4600	
3155	1.57	34.0		EMS-4600	