General information

Wellbore name	7/4-3
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	7/4-3
Seismic location	3D survey LN10M08 - inline 35867 & crossline 11804
Production licence	495
Drilling operator	Lundin Norway AS
Drill permit	1432-L
Drilling facility	MÆRSK GUARDIAN
Drilling days	60
Entered date	05.04.2013
Completed date	03.06.2013
Release date	03.06.2015
Publication date	03.06.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	43.0
Water depth [m]	83.0
Total depth (MD) [m RKB]	3000.0
Final vertical depth (TVD) [m RKB]	3000.0
Maximum inclination [°]	2.7
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SMITH BANK FM
Geodetic datum	ED50
NS degrees	57° 42' 16.54'' N
EW degrees	2° 12' 15.81'' E
NS UTM [m]	6396245.56
EW UTM [m]	452583.87
UTM zone	31
NPDID wellbore	7121

Wellbore history

General

Well 7/4-3 was drilled on the Carlsberg prospect on Jæren High in the North Sea. The primary objective was to prove reservoir potential and hydrocarbons in Late Triassic sediments of the Skagerrak Formation. Secondary objective was to prove reservoir potential and hydrocarbons in the Late Cretaceous-Paleocene age sediments of the Ekofisk and Tor formations.

Operations and results

Wildcat well 7/4-3 was spudded with the jack-up installation Mærsk Guardian on 5 April 2013 and drilled to TD at 3000 m in the Triassic Smith Bank Formation. The well was drilled without significant problems. It was drilled with seawater and hi-vis sweeps down to 240 m, with KCl/polymer mud from 240 m to 806 m, and with Performadril water based mud from 806 m to TD.

The well drilled a thick Triassic sequence of floodplain mudstones assigned to the Smith Bank Formation. This did not contain any fluvial sandstones and the sequence had no reservoir quality. The well encountered Late Cretaceous to Paleocene age chalks of the Hod, Tor and Ekofisk formations with the prognosed development. There were however, no indication of hydrocarbons on the logs, or oil shows recorded, throughout the well.

No cores were cut and no wire line logs were run in the well. No fluid sampling was performed.

The well was permanently abandoned on 3 June 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]
250.00	3000.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
126	NORDLAND GP
126	UNDIFFERENTIATED
240	NO FORMAL NAME
280	NO FORMAL NAME

351	UNDIFFERENTIATED
1098	HORDALAND GP
1098	NO FORMAL NAME
2029	NO FORMAL NAME
2123	ROGALAND GP
2123	BALDER FM
2155	SELE FM
2276	LISTA FM
2318	VÅLE FM
2334	SHETLAND GP
2334	EKOFISK FM
2352	TOR FM
2476	HOD FM
2678	HIDRA FM
2692	CROMER KNOLL GP
2692	RØDBY FM
2710	SOLA FM
2718	ÅSGARD FM
2733	HEGRE GP
2733	SMITH BANK FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - GR RES PWD DEN NEU SON DIR	2275	2997
MWD - GR RES PWD SON DIR	226	807
MWD - NBGR RES GR PWD SON DIR	778	2298

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	233.0	36	240.0	0.00	
SURF.COND.	20	799.0	26	806.0	1.65	LOT
INTERM.	13 3/8	2291.0	17 1/2	2300.0	1.91	LOT
INTERM.	9 5/8	2685.0	12 1/4	2693.0	1.90	FIT
OPEN HOLE		3000.0	8 1/2	3000.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
240	1.10	23.0		Water Based	
377	1.13	24.0		Water Based	
808	1.16	22.0		Water Based	
2145	1.54	57.0		Water Based	
2398	1.55	44.0		Water Based	
2716	1.55	42.0		Water Based	