

**General information**

Wellbore name	7220/6-2
Type	EXPLORATION
Purpose	WILDCAT
Status	SUSPENDED
Factmaps in new window	link to map
Main area	BARENTS SEA
Well name	7220/6-2
Seismic location	LN11M04 inline 7758 & crossline 3828
Production licence	609
Drilling operator	Lundin Norway AS
Drill permit	1590-L
Drilling facility	ISLAND INNOVATOR
Drilling days	35
Entered date	01.10.2015
Completed date	04.11.2015
Release date	04.11.2017
Publication date	18.12.2017
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	30.0
Water depth [m]	387.0
Total depth (MD) [m RKB]	985.0
Final vertical depth (TVD) [m RKB]	985.0
Maximum inclination [°]	1.4
Oldest penetrated age	MIDDLE TRIASSIC
Oldest penetrated formation	SNADD FM
Geodetic datum	ED50
NS degrees	72° 34' 13.1" N
EW degrees	20° 58' 19.66" E
NS UTM [m]	8062692.32
EW UTM [m]	699378.62
UTM zone	33
NPDID wellbore	7748

**Wellbore history**

Wellbore history

General

Well 7220/6-2 was drilled to test the Neiden prospect on the western side of the Loppa High in the Barents Sea. The well is located ca 4 km north-northwest of the Obelix well 7220/6-1, which had shows and traces of live oil in the Permian Ørn Formation. The primary objectives were to test the reservoir properties and hydrocarbon potential in sandstones within the Triassic Snadd Formation and in the carbonates of the Ørn Formation.

Operations and results

Wildcat well 7220/6-2 was spudded with the semi-submersible installation Island Innovator on 1 October 2015 and drilled to TD at 985 m in Middle Triassic sediments in the Snadd Formation. Operations proceeded with 23% of total time recorded as downtime. Most of the downtime was related to losses in the Snadd Formation. After completing the drilling and data acquisition program, a 7" liner was installed and the well was temporarily plugged and abandoned due to rig classification in the Barents Sea for the prevailing winter. The well was drilled with seawater and hi-vis pills down to 537 m, and with Aquadrill mud from 537 m to TD.

The well encountered the prognosed intra Snadd sandstones at 634 m. The sandstones form part of a heterolithic siliciclastic unit with 181.5 m TVD gross thickness. These sandstone stringers and interbeds were water wet (density 1.082 g/cc) but had traces of gas and minor oil shows in the cuttings.

One core was cut from 835 m to 861.4 m with 100% recovery. The core was mostly siltstone with sandstone and claystone beds. MDT water samples were taken at 616.9 m and 789.2 m.

The well was suspended on 4 November 2015 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]
510.00	985.00

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	840.0	866.4	[m]

Total core sample length [m]	26.4
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
417	NORDLAND GP
417	UNDIFFERENTIATED
481	SOTBAKKEN GP
481	TORSK FM
510	KAPP TOSCANA GP
510	SNADD FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMI MSIP	566	811
FMI MSIP	610	966
HRLA PEX ECS HNGS	562	811
HRLA PEX ECS HNGS	745	958
MDT	639	789
MWD - GR PWD RES DIR AC	417	502
MWD - PWD DIR	417	488
MWD - RES GR PWD DIR	877	985
MWD - RES GR PWD DIR DEN NEU AC	502	877
MWD - RES GR PWDDIR	985	985
USIT DCBL VDL GR	438	567
USIT DCBL VDL GR	533	945
XL ROCK	621	649

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	478.0	36	478.0	0.00	
SURF.COND.	13 3/8	494.8	26	497.0	1.26	FIT
PILOT HOLE		497.0	9 7/8	497.0	0.00	
LINER	9 5/8	605.2	12 1/4	606.0	1.44	FIT
LINER	7	978.0	8 1/2	979.0	1.40	FIT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
417	1.50	19.0		Water Based	
417	1.04	1.0		Water Based	
502	1.04	1.0		Water Based	
502	1.50	19.0		Water Based	
517	1.20	11.0		Water based	
611	1.25	12.0		Water Based	
611	1.20	12.0		Water Based	
761	1.21	12.0		Water Based	
761	1.25	11.0		Water Based	
812	1.21	12.0		Water Based	
876	1.18	12.0		Water Based	
876	1.21	13.0		Water Based	
882	1.17	11.0		Water Based	
985	1.13	1.0		Brine	
985	1.17	11.0		Water Based	