



General information

Wellbore name	7218/8-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	BARENTS SEA
Well name	7218/8-1
Seismic location	WG1001 inline 1696 & crossline 4172
Production licence	607
Drilling operator	GDF SUEZ E&P Norge AS
Drill permit	1508-L
Drilling facility	TRANSOCEAN BARENTS
Drilling days	39
Entered date	03.03.2014
Completed date	10.04.2014
Release date	01.10.2015
Publication date	01.10.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	40.0
Water depth [m]	385.0
Total depth (MD) [m RKB]	3000.0
Final vertical depth (TVD) [m RKB]	3000.0
Maximum inclination [°]	2
Oldest penetrated age	EARLY CRETACEOUS
Oldest penetrated formation	KOLMULE FM
Geodetic datum	ED50
NS degrees	72° 20' 0.7" N
EW degrees	18° 28' 38.46" E
NS UTM [m]	8029760.19
EW UTM [m]	617733.08
UTM zone	33
NPDID wellbore	7413



Wellbore history

General

Well 7218/8-1 was drilled on the Byrkje prospect on the Veslemøy High in the western Barents Sea. The objective of the well was to test the potential of hydrocarbon reservoirs in the Late Cretaceous Kviting Formation and Early to Late Cretaceous Kolmule Formation.

Operations and results

A 9 7/8" pilot hole, 7218/8-U-1, was drilled on the location, down to 949 m. No shallow gas was observed.

Wildcat well 7218/8-1 was spudded with the semi-submersible installation Transocean Barents on 3 March 2014 and drilled to TD at 3000 m in Early Cretaceous sediments in the Kolmule Formation. No significant problem was encountered in the operations. The well was drilled with seawater down to 941 m, with Glydril mud from 941 m to 1750 m and with EMS 3100 mud from 1750 m to TD.

The well was dry. The Nygrunnen Group was penetrated at 1852 to 1893 m. It consisted mainly of claystone belonging to the Kveite Formation; the Kviting Formation was not present in the well. Only one meter of reservoir quality sand with "faint gas shows" were observed in the Nygrunnen Group. From a sidewall core 1876.5 m, a very slight show was observed from a silty sandstone interval. Below the Kveite Formation, the well drilled 1107 m of Kolmule Formation claystones with no reservoir intervals and no indication of hydrocarbons.

No cores were cut in the well. MDT fluid samples (water and gas) were taken at 1878.5 m.

The well was permanently abandoned on 10 April 2014 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]
950.00	3000.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
425	NORDLAND GP
425	NAUST FM



563	SOTBAKKEN GP
563	TORSK FM
1852	NYGRUNNEN GP
1852	KVEITE FM
1893	ADVENTDALEN GP
1893	KOLMULE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMI GR	1720	2007
LWD - ARC SADN TELE SONVIS	941	1740
LWD - TELE GEOVIS SONICVIS	1740	3000
MDT GR	1882	1877
MSCT GR	1853	2006
MWD - ARC TELE	424	941
MWD - PP DIR	425	490
VSI4 GR	993	2995

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	484.0	36	488.0	0.00	
SURF.COND.	20	937.0	26	941.0	0.00	
PILOT HOLE		949.0	9 7/8	949.0	0.00	
INTERM.	9 5/8	1733.0	12 1/4	1740.0	0.00	
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
473	1.27	12.0		GLYDRIL	
1076	1.24	14.0		Glydril	
1592	1.24	20.0		GLYDRIL	
2260	1.33	19.0		EMS 3100	
3000	1.33	21.0		EMS 3100	

