



General information

Wellbore name	7218/11-1
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	7218/11-1
Seismic location	EL0001 PSTM 3D. xline 3372 & inline 1011
Production licence	531
Drilling operator	Repsol Exploration Norge AS
Drill permit	1435-L
Drilling facility	TRANSOCEAN BARENTS
Drilling days	37
Entered date	05.03.2013
Completed date	10.04.2013
Release date	10.04.2015
Publication date	20.05.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	40.0
Water depth [m]	327.6
Total depth (MD) [m RKB]	2542.0
Final vertical depth (TVD) [m RKB]	2540.0
Maximum inclination [°]	5.8
Oldest penetrated age	EARLY CRETACEOUS
Oldest penetrated formation	KOLMULE FM
Geodetic datum	ED50
NS degrees	72° 5' 29.1" N
EW degrees	18° 25' 58.6" E
NS UTM [m]	8002705.83
EW UTM [m]	617771.53
UTM zone	33
NPDID wellbore	7114



Wellbore history

General

Well 7218/11-1 was drilled on the Darwin prospect about 230 kilometres northwest of Hammerfest and 80 kilometres southwest of the 7220/8-1 (Skrugard) discovery in the western part of the Barents Sea. The primary exploration target for the well was to prove petroleum in the Late Cretaceous (Kveite Formation). The secondary exploration target was to prove petroleum in the Paleocene Torsk formation

Operations and results

Wildcat well 7218/11-1 was spudded with the semi-submersible installation Transocean Barents on 5 March 2013 and drilled to TD at 2542 m in the Early Cretaceous Kolmule Formation. A 9 7/8" pilot hole (7218/11-U-1) was drilled to 1155 m to check for shallow gas. No shallow gas or water flow was observed. In the main bore problems occurred as the hole packed off after drilling to 1155 m. A technical sidetrack was performed (7218/11-1 T2), with kick-off at 605 m in the main bore, and further operations proceeded without significant problems. The well was drilled with seawater and bentonite sweeps down to 437 m, with seawater/bentonite sweeps and CMC from 437 m to 1155 m, and with Glydril water based mud from 1155 m to TD. The Glydril mud contain 4-5% glycols.

Reservoir development was not proven in the Kveite formation, and thin, dense sandstone layers were proven in the Torsk formation, as well as traces of gas. The section between 1610 and 1750 in the upper Kolmule Formation is a potential source rock for gas and oil. It has enhanced TOC in the range 2 - 3.5 %wt and Rock-Eval Hydrogen index in the range 200 - 300 mg HC/g TOC. The kerogen in this section is mainly of terrestrial nature, with some algal contribution. In the well location, the section is immature for petroleum generation.

No cores were cut in the well. No fluid samples were taken

The well was permanently abandoned on 10 April 2013 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]
1150.00	2540.00

Cuttings available for sampling?	YES
----------------------------------	-----

Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
368	NORDLAND GP
662	SOTBAKKEN GP
662	TORSK FM
1559	ADVENTDALEN GP
1559	KOLMULE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
HNGS ECS	1408	1605
LWD - ARC8 SONVIS	1145	1424
LWD - ARCVIS	437	605
LWD - ARCVIS	605	1145
LWD - RAB6 ECOSCOPE	1424	2542
MDT CMR GR	1445	1457
MSCT GR	1430	1750
PEX HRLA MSIP	772	1850
VSP GR	386	2525

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	433.0	36	437.0	0.00	
INTERM.	13 3/8	1136.0	17 1/2	1145.0	0.00	
INTERM.	9 5/8	1416.0	12 1/4	1425.0	0.00	
OPEN HOLE		2542.0	8 1/2	2542.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
350	1.02			SW / Sweeps	
1129	1.19	14.0		Glydril WBM	
1145	1.19	20.0		Spudmud	
1894	1.29	17.0		Glydril WBM	
2519	1.36	19.0		Glydril WBM	



2541	1.24	12.0		Glydril WBM	
2541	1.24	12.0		Glydril WBM	