

**General information**

Wellbore name	7119/12-4
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	7119/12-4
Seismic location	3D survey : ST09M03-inline 6640 & xline 7290
Production licence	488
Drilling operator	Statoil Petroleum AS
Drill permit	1324-L
Drilling facility	POLAR PIONEER
Drilling days	37
Entered date	12.01.2011
Completed date	17.02.2011
Release date	17.02.2013
Publication date	17.02.2013
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	23.0
Water depth [m]	192.0
Total depth (MD) [m RKB]	2917.0
Final vertical depth (TVD) [m RKB]	2910.0
Maximum inclination [°]	8.9
Bottom hole temperature [°C]	105
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	FRUHOLMEN FM
Geodetic datum	ED50
NS degrees	71° 1' 42.91" N
EW degrees	19° 49' 20.56" E
NS UTM [m]	7881212.46
EW UTM [m]	457271.46
UTM zone	34
NPDID wellbore	6468



Wellbore history

General

Well 7119/12-4 was drilled on the Lunde prospect between the south western end of the Hammerfest Basin and the Troms Basin, in the vicinity of the Ringvassøy-Loppa Fault Complex. The primary objective was to prove economic volumes of hydrocarbons in the Middle Jurassic Stø and Nordmela Formations. The secondary objective was to evaluate the prospectivity in the Early Jurassic to Late Triassic Tubåen, Fruholmen and Snadd Formations. TD of the well was planned in the late Triassic Snadd Formation.

Operations and results

A 9 7/8" shallow gas borehole (7119/12-U-1) was drilled down to setting depth of the 13 3/8 casing at 1150 m MD to check for shallow gas. No shallow gas was observed and the shallow hole was cemented back. The rig was moved a few meters to the main well location. Wildcat well 7119/12-4 was spudded with the semi-submersible installation Polar Pioneer on 12 January 2011 and drilled to TD at 2917 m in the Late Triassic Fruholmen Formation. Due to hard and consolidated formation drilling progress was slow, but otherwise no significant problem was encountered in the operations. The well was drilled with seawater and hi-vis pills down to 1152 m and with KCl/Gem/Polymer mud from 1152 m to TD.

Well 7119/12-4 penetrated sediments ranging from recent to late Triassic. The well was dry. Weak hydrocarbon shows were seen at 1850 - 1873 m in the Kolje and Knurr Formations of early Cretaceous age. There were few indications of hydrocarbons while drilling the reservoir section. Few shows were seen in cuttings and the returned gas and the resistivity log response were relatively low. The gas values increased slightly with the penetration rate and while drilling through thin Coal layers in the interval from Nordmela to Fruholmen Formation. Except from rare and very weak shows observed in the Stø Formation, no hydrocarbon shows were observed on the drilled cuttings. However, 9 sidewall cores from 2300 to 2483 m had shows of residual oil.

No cores were cut but 23 full recovery sidewall cores were taken, covering all the formations in the interval from Hekkingen to Fruholmen Formations. No wire line fluid samples were taken.

Due to the absence of hydrocarbons, and the slow drilling progress, TD of the well was set shallower than planned in the Fruholmen Formation. The well was permanently abandoned on 17 February 2011 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]
1160.00	2917.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
215	NORDLAND GP
472	SOTBAKKEN GP
472	TORSK FM
612	NYGRUNNEN GP
1116	ADVENTDALEN GP
1116	KOLMULE FM
1636	KOLJE FM
1955	KNURR FM
2058	HEKKINGEN FM
2238	FUGLEN FM
2296	KAPP TOSCANA GP
2296	STØ FM
2448	NORDMELA FM
2660	TUBÅEN FM
2808	FRUHOLMEN FM

Geochemical information

Document name	Document format	Document size [MB]
6468 01 7119 12 4 gch transfer 2	txt	0.00
6468 02 7119 12 4 gch results 2	txt	0.03

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DSI PEX GR	2177	2917
MDT GR	2177	2917
MSCT GR	2177	2917
MWD - PP DSI ARCVRES GVR TELE PP	215	2917





VSP GR	2177	2917
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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	274.0	36	279.4	0.00	LOT
SURF.COND.	13 3/8	1144.0	17 1/2	1152.0	1.43	LOT
PILOT HOLE		1150.0	9 7/8	1150.0	0.00	LOT
INTERM.	9 5/8	2178.0	12 1/4	2185.0	1.54	LOT
OPEN HOLE		2917.0	8 1/2	2917.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
219	1.60	21.0		KCl/Polymer/GEM	
241	1.60	21.0		KCl/Polymer/GEM	
242	1.05	15.0		Spud Mud	
279	1.60	21.0		KCl/Polymer/GEM	
661	1.60	21.0		KCl/Polymer/GEM	
1120	1.25	14.0		KCl/Polymer/GEM	
1152	1.05	17.0		Spud Mud	
1155	1.25	13.0		KCl/Polymer/GEM	
1675	1.31	26.0		KCl/Polymer/GEM	
1692	1.25	30.0		KCl/Polymer/GEM	
1907	1.26	23.0		KCl/Polymer/GEM	
2135	1.28	19.0		KCl/Polymer/GEM	
2169	1.30	14.0		KCl/Polymer/GEM	
2185	1.25	22.0		KCl/Polymer/GEM	
2315	1.30	23.0		KCl/Polymer/GEM	
2514	1.31	24.0		KCl/Polymer/GEM	
2704	1.30	27.0		KCl/Polymer/GEM	
2917	1.31	26.0		KCl/Polymer/GEM	
2917	1.30	26.0		KCl/Polymer/GEM	

Pressure plots





The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
6468 Formation pressure (Formasjonstrykk)	pdf	0.18

