General information

Wellbore name	6201/11-3
Type	EXPLORATION
Purpose	WILDCAT
Status	SUSPENDED
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Well name	6201/11-3
Seismic location	ST0503:inline 2739 & crossline 2511
Production licence	519
Drilling operator	Lundin Norway AS
Drill permit	1395-L
Drilling facility	BREDFORD DOLPHIN
Drilling days	40
Entered date	08.05.2012
Completed date	16.06.2012
Release date	16.06.2014
Publication date	02.12.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	382.5
Total depth (MD) [m RKB]	2120.0
Final vertical depth (TVD) [m RKB]	2120.0
Maximum inclination [°]	1.7
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	JORSALFARE FM
Geodetic datum	ED50
NS degrees	62° 2' 44.96'' N
EW degrees	1° 30' 13.07'' E
NS UTM [m]	6880352.98
EW UTM [m]	421743.00
UTM zone	31
NPDID wellbore	6821

Wellbore history

General

Well 6201/11-3 was drilled on the Manet Ridge in the northernmost North Sea between the Magnus and Møre

Basins. The primary objective was to investigate the Albert prospect, a Late Cretaceous succession untested by the neighbouring well 6201/11-1, where Statoil found oil in the Triassic Lunde Formation in 1987. Paleocene and Triassic sandstones were secondary targets in 6201/11-3.

Operations and results

Wildcat well 6201/11-3 was spudded with the semi-submersible installation Bredford Dolphin on 8 May 2012 and drilled to TD at 2120 m in the Late Cretaceous Jorsalfare Formation. A 9 7/8" pilot hole was drilled from below the 30" conductor to 836 m. Here a shallow water/gas flow occurred and the pilot hole was cemented back. A 20" casing was set above the problem zone and the BOP and riser installed prior to re-drilling the interval. Due to expiration of the Bredford Dolphin's certification, the well was suspended at 2120. The well was drilled with spud mud down to 498 m, with KCl/Polymer/GEM mud from 498 m to 1372 m, and with Performadril/GEM mud from 1372 m to TD.

The Primary target was not reached in this well. The secondary target in Paleocene proved movable hydrocarbons in thin sandstones from 1938 to 1954 m in the Lista Formation. Weak oil shows were recorded intermittently in thin carbonate beds in the Hordaland Group from 1400 m to 1845 m and again in thin Intra Lista Formation sandstones from 1938 m to 2017 m.

No cores were cut in well 6201/11-3. An MDT oil sample was taken at 1941.3 m.

The well was suspended on 16 June as a technical oil discovery.

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	2118.00

Cuttings available for sampling?	YES

Oil samples at the Norwegian Offshore Directorate

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
MDT		1941.28	0.00	OIL	05.06.2012 - 00:00	NO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
407	NORDLAND GP
407	UNDIFFERENTIATED
1275	UTSIRA FM
1301	HORDALAND GP
1301	UNDIFFERENTIATED
1808	ROGALAND GP
1808	BALDER FM
1855	SELE FM
1892	LISTA FM
2018	VÅLE FM
2032	SHETLAND GP
2032	JORSALFARE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
GPIT PPC MSIP PPC HRLA PEX EDTC	1328	1993
MDT	1938	1969
MSCT SGTP LEHQT	1823	2032
MWD - TELE ARC SON VIS	499	1367
MWD - TELE ARC SON VIS SADN	1328	2115
PPC GPIT MSIP PPC EDTC	1750	2990

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	498.0	36	498.0	0.00	
SURF.COND.	20	748.0	26	755.0	1.40	FIT

PILOT HOLE		836.0	9 7/8	836.0	0.00	
INTERM.	16	1328.0	20	1372.0	1.64	LOT
INTERM.	13 3/8	2058.0	17 1/2	2120.0	1.82	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
755	1.25	15.0		Water Base	
1372	0.00	18.0		Water Base	
2240	1.64	45.0		Water base	
2523	0.00	52.0		Water Base	
2550	1.67	50.0		Water Base	
3000	0.00	43.0		Water base	
3000	1.70	44.0		Water base	

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]
6821_Formation_pressure_(Formasjonstrykk)	PDF	0.28