



General information

Wellbore name	6201/11-3 R
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Discovery	6201/11-3 R (Albert)
Well name	6201/11-3
Seismic location	STO503 inline 2739 & crossline 2511
Production licence	519
Drilling operator	Lundin Norway AS
Drill permit	1395-L2
Drilling facility	BREDFORD DOLPHIN
Drilling days	67
Entered date	15.08.2012
Completed date	20.10.2012
Plugged and abandon date	20.10.2012
Release date	20.10.2014
Publication date	02.12.2014
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	DRILLING
Content	OIL
Discovery wellbore	YES
1st level with HC, age	LATE CRETACEOUS
1st level with HC, formation	KYRRE FM
Kelly bushing elevation [m]	25.0
Water depth [m]	382.0
Total depth (MD) [m RKB]	3000.0
Final vertical depth (TVD) [m RKB]	3000.0
Maximum inclination [°]	1.7
Bottom hole temperature [°C]	115
Oldest penetrated age	PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
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	7110

Wellbore history

General

Well 6201/11-3 R is a re-entry of well 6201/11-3. The well is located on the Manet Ridge in the northernmost North Sea between the Magnus and Møre Basins. Well 6201/11-3 was suspended at 2120 m before the main target was reached because the certification for the rig expired. The re-entry was done to fulfil the well objectives. 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. Secondary objectives were sandstones in the Paleocene (reached in the primary entry) and sandstones in the Triassic.

Operations and results

Wildcat well 6201/11-3 was re-entered with the semi-submersible installation Bredford Dolphin on 15 August 2012. The re-entry was drilled from 2120 m to TD at 3000 m in the Late Permian Zechstein Group. The well was drilled with Performadril/GEM mud from Kick-off to TD.

Oil was proven in the uppermost part of the primary target, a 3.5 m thick Kyrre Formation chalk reservoir with top at 2620.8 m. A successful mini-DST proved good hydrocarbon productivity in the chalk formation. The lower Triassic primary objective was found to contain tight sandstone reservoir facies with oil shows.

Five cores were cut in the well. Cores 1 and 2 were cut in the Kyrre Formation in the interval 2621.5 m to 2651.8 m. Cores 3, 4, and 5 were cut in the Lunde Formation in the intervals 2710 m to 2718 m, 2754 m to 2758 m, and 2795 m to 2809.4 m, respectively. Core recoveries varied from 7.5 to 100%. MDT oil samples were acquired at 2621.7 m, 2621.8, and 2624.0 m in the Kyrre Formation. MDT water samples were acquired at 2737.6 m, 2834.4 m, and 2836.9 m in the Lunde Formation.

The well was permanently abandoned on 20 October 2012 as an 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]
2123.00	3000.00

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	2621.5	2624.8	[m]
2	2628.4	2651.8	[m]
3	2710.0	2716.7	[m]
4	2754.0	2754.3	[m]
5	2795.0	2809.4	[m]

Total core sample length [m]	48.0
Cores 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		2736.30	0.00	OIL	04.10.2012 - 00:00	YES
MDT		0.00	2736.30	OIL	04.10.2012 - 00:00	YES

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
2156	KYRRE FM
2703	HEGRE GP
2703	LUNDE FM



2783	TEIST FM
2925	NO FORMAL NAME
2940	ZECHSTEIN GP
2940	UNDIFFERENTIATED

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CMR MDT	2621	2836
FMI PPC MSIP PPC EDTC	1750	2990
HRLA PEX ECS HNGS	2518	2992
MDT	2621	2842
MSCT GR	2620	2707
MSCT GR	2705	2972
MSCT GR	2708	2962
MWD - ARC TELE SON SADN	2058	2517
MWD - SON TELE ECO GVR	2520	2999
USIT CBL	1445	1959
VSP GR	1349	2980

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
INTERM.	9 5/8	2521.0	12 1/4	2523.0	1.84	LOT
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
2240	1.64	45.0		Water base	
2550	1.67	50.0		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]
7110 Formation pressure (Formasjonstrykk)	PDF	0.23

