

**General information**

Wellbore name	6608/10-15
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Field	URD
Discovery	6608/10-15 (Svale Nord)
Well name	6608/10-15
Seismic location	3D survey ST04M17 Inline 1264. X-line 2657
Production licence	128
Drilling operator	Statoil Petroleum AS
Drill permit	1466-L
Drilling facility	SONGA TRYM
Drilling days	24
Entered date	20.08.2013
Completed date	12.09.2013
Release date	12.09.2015
Publication date	12.09.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	ÅRE FM
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	MELKE FM
Kelly bushing elevation [m]	25.0
Water depth [m]	375.0
Total depth (MD) [m RKB]	2030.0
Final vertical depth (TVD) [m RKB]	2030.0
Maximum inclination [°]	0.8
Bottom hole temperature [°C]	70
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50



NS degrees	66° 5' 20.78" N
EW degrees	8° 16' 41.48" E
NS UTM [m]	7330215.93
EW UTM [m]	467352.72
UTM zone	32
NPDID wellbore	7245

Wellbore history

General

Well 6608/10-15 was drilled on the Svalbard Nord prospect about nine kilometres northeast of the Norne field in the Norwegian Sea. The primary objective was to prove petroleum in the Early Jurassic Åre Formation. The secondary objective was to prove petroleum in the Middle Jurassic Intra-Melke Formation sandstone.

Operations and results

Wildcat well 6608/10-15 was spudded with the semi-submersible installation Songa Trym on 20 August 2013 and drilled to TD at 2030 m in the Early Jurassic Formation. No shallow gas or water flows were encountered in the top hole. Operations proceeded without significant problems. The well was drilled with seawater down to 454 m, with KCl/Glycol water based mud from 554 m to 1707 m, and with KCl/GEM/Polymer - low sulphate mud from 1707 m to TD.

Top of the Intra-Melke Formation sandstone was picked at 1860 m. The Intra-Melke Formation sandstone was oil filled with an approximate 30 - 36 m oil column. The oil-water contact is estimated to be between 1890 and 1896 m. Top of the expected main reservoir, is interpreted to be a sandstone in the lower Not Formation at 1924 m while the Top Åre Formation was picked at 1934 m, 14 m deeper than prognosed. The Not/Åre sandstones showed good reservoir properties and contained an approximate 43 - 51 m oil column. The oil-water contact is most likely between the oil sample at 1967 m and the water sample at 1975.5 m, however an oil down-to situation cannot be ruled out based on the present data. Geochemical analyses of the Åre oil and gas show biodegraded oil and a mix of biogenic and thermogenic gas. The Åre 1 Formation was water saturated. No oil shows were described outside of the hydrocarbon-bearing reservoirs.

No cores were cut in the well. MDT fluid samples were taken at 1948.7 m (oil), 1948.71 m (oil), 1961 m (oil), 1967.7 m (oil), 1975.51 m (water), and 1893.81 m (water).

The well was permanently abandoned on 12 September 2013 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]
1350.00	2028.00



Cuttings available for sampling?	YES
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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		0.00	1963.00	OIL		YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
400	NORDLAND GP
672	NAUST FM
1369	KAI FM
1467	HORDALAND GP
1467	BRYGGE FM
1640	ROGALAND GP
1640	TARE FM
1690	TANG FM
1714	SHETLAND GP
1714	SPRINGAR FM
1735	CROMER KNOLL GP
1735	LYR FM
1830	VIKING GP
1830	MELKE FM
1860	INTRA MELKE FM SS
1905	FANGST GP
1905	NOT FM
1934	BÅT GP
1934	ÅRE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CMR HRLA PEX ECS GR	1707	2030
FMI MSIP GR	1295	2025



MDT GR	1848	1961
MDT GR	1861	2018
MDT GR	1890	1961
MWD - GVR ARCVIS RES TELE	1700	2030
MWD - PD ARC TELE	436	1337
MWD - PD ARCVIS RES TELE	1300	1707
MWD - TELE	400	454
VSI GR	400	2020

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	451.0	36	454.5	0.00	
SURF.COND.	13 3/8	1331.0	17 1/2	1337.0	1.41	FIT
LINER	9 5/8	1706.0	12 1/4	1707.0	1.64	FIT
OPEN HOLE		2030.0	8 1/2	2030.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
437	1.39	23.0		KCl/Polymer/Glycol	
1337	1.27	19.0		KCl/Polymer/Glycol	
1337	1.28	17.0		KCl/Polymer/Glycol	
1530	1.22	20.0		Low Sulphate/KCl/Poly mer/Glycol	
1707	1.27	22.0		KCl/Polymer/Glycol	
2031	1.22	20.0		Low Sulphate/KCl/Poly mer/Glycol	