

**General information**

Wellbore name	34/7-34
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	VIGDIS
Discovery	34/7-34
Well name	34/7-34
Seismic location	inline 3210 & crossline 5806(3D survey SG9701STR05 PSDM)
Production licence	089
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1210-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	25
Entered date	14.02.2009
Completed date	10.03.2009
Release date	10.03.2011
Publication date	10.03.2011
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	STATFJORD GP
Kelly bushing elevation [m]	31.0
Water depth [m]	292.0
Total depth (MD) [m RKB]	2701.0
Final vertical depth (TVD) [m RKB]	2701.0
Maximum inclination [°]	0.35
Bottom hole temperature [°C]	95
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	LUNDE FM
Geodetic datum	ED50
NS degrees	61° 23' 22.5" N
EW degrees	2° 8' 32.3" E



NS UTM [m]	6806645.48
EW UTM [m]	454178.72
UTM zone	31
NPDID wellbore	5973

Wellbore history

General

Well 34/7-34 was drilled on the Vigdis Nordøst prospect located centrally in Block 34/7 on the Tampen Spur in the northern North Sea. The primary objective was to prove commercial volumes of oil in the Early Jurassic Statfjord Formation. In addition, the Late Jurassic Draupne Formation was listed as a possible secondary target as Intra-Draupne sandstone was encountered in the 34/7-8 discovery well on the Vigdis øst Field.

Operations and results

A 9 7/8" pilot hole, well 34/7-U-18, was drilled to evaluate for shallow gas, as two potential shallow gas warnings, class 1, were given to the well. Based on MWD/LWD logs water filled sands were encountered at the following depths: 377 m, 452 m, 562 m, 597 m, and 602 m. No indication of shallow gas at seabed was verified with the ROV. Neither were any indications of shallow gas observed at surface or measured while drilling the 36" and 17 1/2" hole in well 34/7-34.

Wildcat well 34/7-34 was spudded with the semi-submersible installation Borgland Dolphin on 14 February 2009 and drilled to TD at 2701 m in the Late Triassic Lunde Formation. No significant technical problems were encountered in the operations. The well was drilled with seawater and pre-hydrated bentonite sweeps down to 1189 m and with XP-07 oil based mud from 1189 m to TD.

The well penetrated rocks of Quaternary, Tertiary, Cretaceous, Jurassic, and Triassic age. It penetrated the southern local high of the Vigdis Nordøst structure in a downflank position. The well indicated the presence of hydrocarbons in the Shetland and shows were described from 2210 m to 2290 m in thin sandstone beds. Surprisingly, neither the Cromer Knoll, nor any Viking Group was present in the well; the well penetrated directly from the Shetland Group and into the Amundsen shale of the Dunlin Group. The well penetrated oil-bearing Statfjord Formation sandstones at 2460.5 m. Oil was present down to 2514 m. No oil/water contact could be seen, and a sidetrack was decided. No shows were described below 2514 m.

One core was cut from 2473 m to 2502 m in the Statfjord Formation. MDT oil samples were collected in the Statfjord Formation at 2470.5 m (good quality, 8 bar draw-down) and 2502.5 m (86 bar draw-down and 6 - 8% mud contamination).

The well bore was permanently plugged back and abandoned on 10 March 2009 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]
1200.00	2700.00

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

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	2473.0	2502.2	[m]

Total core sample length [m]	29.2
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
323	NORDLAND GP
1080	UTSIRA FM
1095	HORDALAND GP
1680	ROGALAND GP
1680	BALDER FM
1719	LISTA FM
1860	SHETLAND GP
2349	DUNLIN GP
2349	AMUNDSEN FM
2461	STATFJORD GP
2584	HEGRE GP
2584	LUNDE FM

Geochemical information

Document name	Document format	Document size [MB]
5973 01 34 7 34 gch transfer 1	txt	0.00
5973 02 34 7 34 gch results 1	txt	0.10

Logs





Log type	Log top depth [m]	Log bottom depth [m]
AIT PEX MSIP	2050	2690
MDT PRESS & SAMPLE	2461	2661
MWD - ARCVRES8 POWERPULSE	1189	2111
MWD - ARCVRES9 POWERPULSE	386	1189
MWD - GVR6 ARCVRES6 STET TELE	2111	2701
MWD - POWERPULSE	323	385
VSP	267	2626

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	383.0	36	386.0	0.00	LOT
SURF.COND.	13 3/8	1184.0	17 1/2	1189.0	1.57	LOT
INTERM.	9 5/8	2106.0	12 1/4	2111.0	1.78	LOT
OPEN HOLE		2701.0	8 1/2	2701.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1189	1.30	20.0		KCl/Polymer/GEM	
1300	1.39	15.0		OBM-Low ECD	
1400	1.42	15.0		OBM-Low ECD	
1757	1.46	19.0		OBM-Low ECD	
1878	1.66	20.0		OBM-Low ECD	
2001	1.62	20.0		OBM-Low ECD	
2106	1.55	18.0		OBM-Low ECD	
2111	1.48	20.0		OBM-Low ECD	
2473	1.58	18.0		OBM-Low ECD	
2499	1.58	17.0		OBM-Low ECD	
2701	1.66	21.0		OBM-Low ECD	