General information

Wellbore name	34/8-12 S
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	GIMLE
Discovery	34/8-12 S
Well name	34/8-12
Seismic location	NH9263-16
Production licence	120
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	1016-L
Drilling facility	TRANSOCEAN ARCTIC
Drilling days	34
Entered date	06.11.2001
Completed date	09.12.2001
Release date	09.12.2003
Publication date	06.01.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	BRENT GP
2nd level with HC, age	EARLY JURASSIC
2nd level with HC, formation	AMUNDSEN FM
Kelly bushing elevation [m]	24.0
Water depth [m]	273.0
Total depth (MD) [m RKB]	3347.0
Final vertical depth (TVD) [m RKB]	3183.5
Maximum inclination [°]	46.1
Bottom hole temperature [°C]	125
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	LUNDE FM
Geodetic datum	ED50
NS degrees	61° 16' 4.9'' N

EW degrees	2° 20' 31.95'' E
NS UTM [m]	6792981.30
EW UTM [m]	464721.60
UTM zone	31
NPDID wellbore	4424

Wellbore history

General

Well 34/8-12 S was drilled on the "B prospect" ca one km south of the Visund Field on Tampen Spur in the North Sea. The main objective of the well was to explore the hydrocarbon potential in the Statfjord/Amundsen Formations. A secondary target was to explore the hydrocarbon potential in the underlying Lunde Formation.

Operations and results

Wildcat well 34/8-12 S was spudded with the semi-submersible installation Transocean Arctic on 6 November 2001 and drilled to TD at 3347 m (3184 m TVD) in the Late Triassic Lunde Formation. Total loss of mud occurred at 2201 m and the well was plugged back and technically sidetracked from 1910 m (34/8-12 S T2). The well was drilled with seawater and hi-vis pills down to 1547 m and with Versavert oil based mud from 1547 m to TD.

Top Viking Group was penetrated at 3048 m and consisted of a thin section of Draupne and Heather Formation shales. The Middle Jurassic Brent Group, which was believed to be absent in the well location, was encountered at 3055 m (2891.6 m TVD). It was oil/condensate-filled with a down-to contact at top Dunlin Group at 3081 m (2917 m TVD). The Amundsen Formation was oil-filled from top at 3158 m (2994.6 m TVD) to a down-to contact at 3177.3 m (3014 m TVD). Top of the Statfjord Group came in at 3184.5 m (3021.1 m TVD). The Statfjord and Lunde Formations were water bearing with a pressure gradient indicating that the down-to contact in Amundsen Formation is close to the actual OWC. No shows were described outside of the oil-bearing sections.

No cores were cut in the well. MDT fluid samples were taken in the Brent Group at 3056 m (oil and gas), 3067.5 m (oil and gas), and in the Amundsen Formation at 3159.6 m (oil and gas).

The well was permanently abandoned on 9 December 2001 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]
1560.00	3347.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
297	NORDLAND GP
961	UTSIRA FM
1110	HORDALAND GP
1839	ROGALAND GP
1839	BALDER FM
1886	SELE FM
1924	LISTA FM
2070	SHETLAND GP
2070	JORSALFARE FM
2382	KYRRE FM
3043	CROMER KNOLL GP
3043	UNDIFFERENTIATED
3048	VIKING GP
3048	DRAUPNE FM
3050	HEATHER FM
3055	BRENT GP
3055	UNDIFFERENTIATED
3081	DUNLIN GP
3081	UNDIFFERENTIATED
3158	AMUNDSEN FM
3185	STATFJORD GP
3185	UNDIFFERENTIATED
3253	HEGRE GP
3253	LUNDE FM

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
4424_34_8_12_S_COMPLETION_LOG	.PDF	3.40
4424_34_8_12_S__COMPLETION_REPORT	.pdf	8.94

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT PEX DSI GR	2650	3343
CST GR	3049	3183
MDT GR	3056	3307
MWD - PP	297	373
MWD - PP CDR	373	2201
MWD - PP CDR	1900	2960
MWD - PP CDR ADN	2960	3347
VSP GR	2650	3340

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	3548.0	12 1/4	3556.0	1.80	LOT
OPEN HOLE		4124.0	8 1/2	4124.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1520	1.45	30.0		oil based	
1553	1.50	26.0		oil based	
1644	1.50	26.0		oil based	
2107	1.55	38.0		oil based	
2201	1.48	23.0		oil based	
2960	1.45	26.0		oil based	
3347	1.62	36.0		oil based	

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]
4424_Formation_pressure_(Formasjonstrykk)	pdf	0.20