



General information

Wellbore name	25/1-11 R
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	SKOGUL
Discovery	25/1-11 R Skogul
Well name	25/1-11
Seismic location	NH9306R04 inline 1250 & xline 2593
Production licence	460
Drilling operator	Det norske oljeselskap ASA
Drill permit	1268-L2
Drilling facility	AKER BARENTS
Drilling days	24
Entered date	04.04.2010
Completed date	26.04.2010
Plugged date	26.04.2010
Release date	26.04.2012
Publication date	26.04.2012
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	DRILLING/PLUGGING
Content	OIL
Discovery wellbore	YES
1st level with HC, age	EOCENE
1st level with HC, formation	FRIGG FM
Kelly bushing elevation [m]	40.0
Water depth [m]	107.0
Total depth (MD) [m RKB]	2338.0
Final vertical depth (TVD) [m RKB]	2338.0
Maximum inclination [°]	1.4
Bottom hole temperature [°C]	73
Oldest penetrated age	LATE PALEOCENE
Oldest penetrated formation	HEIMDAL FM
Geodetic datum	ED50
NS degrees	59° 47' 25.12" N



EW degrees	2° 13' 6.43" E
NS UTM [m]	6628472.08
EW UTM [m]	456130.02
UTM zone	31
NPDID wellbore	6368

Wellbore history

General

Well 25/1-11 R is a planned re-entry of well 25/1-11, which drilled a top hole and sat the 13 3/8" casing. The wells are located on the Frigg Ridge between the Heimdal- and Frigg Fields in the North Sea. The main objectives of the 25/1-11 R Storklakken well was to prove hydrocarbons in the Frigg- or Odin Formation sands, penetrate an observed amplitude anomaly and establish hydrocarbon contacts. The secondary objective was to prove oil in the Hermod-Heimdal formations interval.

Operations and results

Well 25/1-11 was re-entered on 4 April 2010 with the semi-submersible installation Aker Barents. Wildcat well 25/1-11 R was drilled from below the 13 3/8" casing shoe at 1178 m to TD at 2338 m in the Paleocene Heimdal Formation. The well was drilled with Glydril mud with 4.3 - 4.8 % glycol from 1178 m to TD.

The Frigg Formation was encountered at 2118 m. The upper part of the Frigg Formation consists of claystone with a few thin sandstone interbeds and traces of siltstone and Limestone down to 2156 m. The lower part consists of massive

sandstone interrupted by thin beds of claystone. In the thin sandstone stringers in the upper part pressure points showed a gas gradient of 0.148g/cm³. In the massive sandstone reservoir an oil gradient of 0.744g/cm³ and a water gradient of 1.030g/cm³ were defined with an intersection indicating an OWC at 2166 m. The gas gradient indicates the possibility of a GOC at 2144 m. The Hermod Formation was encountered at 2244 m and the Heimdal Formation at 2281 m. Both were water wet. No oil shows were recorded outside the Frigg Formation.

No cores were cut. The MDT tool was run for pressure points and fluid samples. MDT samples were taken in the oil zone at 2156 m and at 2165.4 m. A gas sample was taken at 2119.5 m, and verified the presence of gas at this depth. A water sample was collected at 2179 m. A further oil sample was taken with MDT dual packer at 2158 m (mobility 393.5 mD).

The well was plugged back for a geological sidetrack on 26 April 2010. It is classified as an oil discovery.

Testing

No drill stem test was performed.

**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
DST		2119.90	0.00	CONDENSATE		YES
FMT		2158.00	0.00	OIL		YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
147	NORDLAND GP
397	UTSIRA FM
998	HORDALAND GP
1479	GRID FM
1486	NO FORMAL NAME
2118	FRIGG FM
2205	ROGALAND GP
2205	BALDER FM
2220	SELE FM
2244	HERMOD FM
2253	LISTA FM
2281	HEIMDAL FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMI DSI	2096	2339
MDT	2116	2316
MDT DP	2158	2158
MSCT	2116	2285
MWD - GR RES	217	1178
MWD - GR RES SON	217	1178
MWD - GR RES SON	1178	2097
MWD LWD - GR RES DEN NEU SON	2097	2337
PEX HRLA HNGS CMR	2096	2339



VSP	200	2328
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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	2096.0	12 1/4	2097.0	1.56	LOT
OPEN HOLE		2338.0	8 1/2	2338.0	0.00	LOT