General information

Wellbore name	25/1-11 A
Type	EXPLORATION
Purpose	APPRAISAL
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	1312-L
Drilling facility	AKER BARENTS
Drilling days	16
Entered date	29.04.2010
Completed date	14.05.2010
Plugged and abondon date	14.05.2010
Release date	14.05.2012
Publication date	14.05.2012
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL/GAS
Discovery wellbore	NO
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]	2410.0
Final vertical depth (TVD) [m RKB]	2265.0
Maximum inclination [°]	33
Bottom hole temperature [°C]	75
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	6376

Wellbore history

General

Well 25/1-11 A is a sidetrack to the Storklakken well 25/1-11 R on the Frigg Ridge between the Frigg and Heimdal Fields in the North Sea. Well 25/1-11R found oil and gas in the Eocene Frigg Formation. The main objective of the sidetrack was to prove the vertical extension of the hydrocarbon column in the Frigg reservoir and to find a potential gas-oil contact. An additional objective was to achieve better control of the Frigg/Odin sand pinch out line.

Operations and results

Well 25/1-11 A was sidetracked on 26 April 2010 from a window in the 13 3/8" casing at 1099 m in the primary well bore. The well was drilled with the semi-submersible installation Aker Barents to TD at 2410 m (2264.5 m TVD) in the Palecocene Heimdal Formation. The well was drilled with Versatec oil based mud from kick-off to TD.

The Frigg Formation came in at 2234 m (2110 m TVD). The upper section down to 2274 m (2145.5 m TVD) was dominantly claystone with thin sandstone stringers. In these sandstone stringers a gas gradient was found. In the main Frigg Sandstone an oil gradient was seen with an oil-down-to contact at 2286 m (2156 m TVD). No water zone was encountered. The gas gradient indicates the possibility of a GOC at 2146.1 m TVD. The pressure regimes in the Frigg Formation in the two well bores are slightly different, indicating a pressure barrier in the Frigg reservoir section between the two wellbores. In the lower section of the well a separate water gradient was found in the Heimdal Formation sandstone with a slightly higher pressure regime compared to the Frigg Sandstone.

No cores were cut. The MDT was run for pressure points and fluid samples. In this operation the MDT got stuck, but was freed and retrieved to surface after a 50 hours cut and thread operation. Eighteen good pressure points out of 24 tests were obtained, and a water sample was taken at 2320 m.

The well was permanently abandoned on 14 May 2010 as an oil and gas appraisal.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1110.00	2410.00

Cuttings available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
2261.0	[m]	DC	PETROSTR
2270.0	[m]	DC	PETROS
2273.0	[m]	DC	PETROS
2288.0	[m]	DC	PETROS
2297.0	[m]	DC	PETROS
2306.0	[m]	DC	PETROS
2315.0	[m]	DC	PETROS
2324.0	[m]	DC	PETROS
2333.0	[m]	DC	PETROS
2342.0	[m]	DC	PETROS
2351.0	[m]	DC	PETROS
2360.0	[m]	DC	PETROS
2369.0	[m]	DC	PETROS
2378.0	[m]	DC	PETROS
2387.0	[m]	DC	PETROS
2396.0	[m]	DC	PETROS
2405.0	[m]	DC	PETROS
2410.0	[m]	DC	PETROS

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
147	NORDLAND GP
397	UTSIRA FM
998	HORDALAND GP
1509	GRID FM
1519	NO FORMAL NAME
2234	FRIGG FM
2290	ROGALAND GP
2290	BALDER FM
2308	SELE FM
2318	HERMOD FM

2349	LISTA FM
2390	HEIMDAL FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MDT	2320	0
MSCT	2232	2395
MWD LWD - GR RES	1099	2407
PEX AIT	1062	2413

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.	13 3/8	1091.0	17 1/2	1178.0	0.00	LOT
OPEN HOLE		2410.0	12 1/4	2410.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1143	1.24	22.0		Glydril	
1328	1.39	34.0		Versatec	
1736	1.39	36.0		Versatec OBM	
1978	1.21	20.0		Glydril	
2450	1.39	33.0		Versatec OBM	