

**General information**

Wellbore name	25/11-24
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	25/11-24 (Jakob Sør)
Well name	25/11-24
Seismic location	3D survey (NH9301):inline 1691 & crossline 2462
Production licence	169
Drilling operator	Norsk Hydro Petroleum AS
Drill permit	1131-L
Drilling facility	TRANSOCEAN WINNER
Drilling days	40
Entered date	18.02.2007
Completed date	29.03.2007
Release date	29.03.2009
Publication date	29.03.2009
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	PALEOCENE
1st level with HC, formation	HEIMDAL FM
2nd level with HC, age	JURASSIC
2nd level with HC, formation	STATFJORD GP
Kelly bushing elevation [m]	26.0
Water depth [m]	114.0
Total depth (MD) [m RKB]	2117.0
Final vertical depth (TVD) [m RKB]	2117.0
Maximum inclination [°]	1.2
Bottom hole temperature [°C]	81
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	59° 6' 12.68" N



EW degrees	2° 20' 27.73" E
NS UTM [m]	6551916.90
EW UTM [m]	462253.22
UTM zone	31
NPDID wellbore	5470

Wellbore history

General

Exploration well 25/11-24 was drilled to test the Midway prospect in PL 169 and PL 028C. Midway is located south of Balder and south west of the Grane field. The main reservoir target of the well was the Heimdal sand mound, located close to the eastern pinch-out of a Tertiary submarine fan system on the western margin of the Utsira High. The primary objective was to prove commercial hydrocarbon resources within the Lista, Sele and/or Balder formations and to establish the oil-water contact. The well was located within a closure at top Jurassic level, and a secondary objective was to test the Statfjord Formation.

Operations and results

Well 25/11-24 was spudded with the semi-submersible installation Transocean Winner on 18 February 2007 and drilled to TD at 2117 m in Early Jurassic sediments of the Statfjord Formation. No significant technical problems were encountered in the operations. The well was drilled with sea water down to 1106 m and with a polymer/KCl/glycol mud from 1106 m to TD.

The Rogaland Group was encountered at 1718 m. A thick Heimdal sand with excellent reservoir properties was encountered at 1788 m. It had had an insignificant (1-2 metres) oil column at the top, but was otherwise water-filled. The Heimdal sand is depleted, probably due to production from surrounding fields. Insignificant amounts of injection and/or deposited sands were observed above the main Heimdal sand (in Balder/Sele/Lista). The injection sands had oil shows and were interpreted as oil bearing. The injection sand in Balder was not in pressure communication with the Heimdal sand. In top of the Statfjord formation, a 4 meter oil column was encountered. The oil was light (0.726 g/cc) and the reservoir properties were good. Below the good oil zone the reservoir was highly laminated. The pressure analysis showed a situation with oil-down-to at 2033 m and water-up to at 2048.5 m, where the oil and the water were not in communication.

No conventional cores were taken. A complex MDT tool string for combined formation pressure measurements, fluid sampling/scanning and minitest/VIT was run. Forty-three pretests were attempted, of which 31 were regarded as good, 7 were dry and 5 lost seal. At 2029.5 m in the Statfjord Formation, four good fluid samples (1x 2 3/4 gal sample chamber and 3x450cc bottles) were taken. Fluid sampling in the Heimdal Formation was abandoned due to bad weather.

The well was permanently abandoned on 29 March 2007 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]
1110.00	2117.20

Cuttings available for sampling?	YES
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Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1210.0	[m]	DC	HYDRO
1230.0	[m]	DC	HYDRO
1250.0	[m]	DC	HYDRO
1270.0	[m]	DC	HYDRO
1290.0	[m]	DC	HYDRO
1310.0	[m]	DC	HYDRO
1330.0	[m]	DC	HYDRO
1350.0	[m]	DC	HYDRO
1370.0	[m]	DC	HYDRO
1390.0	[m]	DC	HYDRO
1410.0	[m]	DC	HYDRO
1430.0	[m]	DC	HYDRO
1450.0	[m]	DC	HYDRO
1471.0	[m]	DC	HYDRO
1490.0	[m]	DC	HYDRO
1510.0	[m]	DC	HYDRO
1530.0	[m]	DC	HYDRO
1551.0	[m]	DC	HYDRO
1570.0	[m]	DC	HYDRO
1590.0	[m]	DC	HYDRO
1610.0	[m]	DC	HYDRO
1630.0	[m]	DC	HYDRO
1650.0	[m]	DC	HYDRO
1662.0	[m]	DC	HYDRO
1674.0	[m]	DC	HYDRO
1686.0	[m]	DC	HYDRO
1695.0	[m]	DC	HYDRO
1704.0	[m]	DC	HYDRO
1710.0	[m]	DC	HYDRO
1719.0	[m]	DC	HYDRO
1728.0	[m]	DC	HYDRO



1740.0 [m]	DC	HYDRO
1749.0 [m]	DC	HYDRO
1758.0 [m]	DC	HYDRO
1767.0 [m]	DC	HYDRO
1776.0 [m]	DC	HYDRO
1785.0 [m]	DC	HYDRO
1797.0 [m]	DC	HYDRO
1809.0 [m]	DC	HYDRO
1821.0 [m]	DC	HYDRO
1833.0 [m]	DC	HYDRO
1845.0 [m]	DC	HYDRO
1869.0 [m]	DC	HYDRO
1884.0 [m]	DC	HYDRO
1890.0 [m]	DC	HYDRO
1905.0 [m]	DC	HYDRO
1926.0 [m]	DC	HYDRO
1938.0 [m]	DC	HYDRO
1944.0 [m]	DC	HYDRO
1956.0 [m]	DC	HYDRO
1962.0 [m]	DC	HYDRO
2001.0 [m]	DC	HYDRO
2007.0 [m]	DC	HYDRO
2013.0 [m]	DC	HYDRO
2022.0 [m]	DC	HYDRO
2024.0 [m]	SWC	HYDRO
2029.0 [m]	SWC	HYDRO
2029.1 [m]	SWC	HYDRO
2031.0 [m]	DC	HYDRO
2034.0 [m]	DC	HYDRO
2037.0 [m]	DC	HYDRO
2038.5 [m]	SWC	HYDRO
2044.8 [m]	SWC	HYDRO
2047.0 [m]	SWC	HYDRO
2060.0 [m]	SWC	HYDRO
2062.0 [m]	SWC	HYDRO
2073.0 [m]	DC	HYDRO
2082.0 [m]	DC	HYDRO
2091.0 [m]	DC	HYDRO
2097.0 [m]	DC	HYDRO
2103.5 [m]	SWC	HYDRO



2109.0	[m]	DC	HYDRO
2117.2	[m]	DC	HYDRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
140	NORDLAND GP
723	UTSIRA FM
794	NO FORMAL NAME
841	HORDALAND GP
841	SKADE FM
1006	NO FORMAL NAME
1200	SKADE FM
1208	NO FORMAL NAME
1344	SKADE FM
1358	NO FORMAL NAME
1530	GRID FM
1534	NO FORMAL NAME
1718	ROGALAND GP
1718	BALDER FM
1741	SELE FM
1758	LISTA FM
1788	HEIMDAL FM
1927	LISTA FM
1944	VÅLE FM
1960	SHETLAND GP
1960	TOR FM
1997	CROMER KNOLL GP
1997	RØDBY FM
2003	SOLA FM
2015	ÅSGARD FM
2023	VIKING GP
2023	DRAUPNE FM
2029	STATFJORD GP

Composite logs





Document name	Document format	Document size [MB]
5470	pdf	0.36

Geochemical information

Document name	Document format	Document size [MB]
5470_01_25_11_24_gch_transfer_1	txt	0.00
5470_02_25_11_24_gch_results_1	txt	0.07
5470_1	pdf	0.09
5470_2	pdf	2.69

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CMR GR	1650	2110
MDT GR	1722	2103
MSCT GR	1888	2024
MSCT GR	2027	2103
MWD LWD - DIR	140	225
MWD LWD - DIR	225	1110
MWD LWD - DIR GR RES	225	880
MWD LWD - DIR GR RES	1110	2117
PEX HRLA ECS	760	1642
PEX HRLA SP ECS CMR	1523	2057
SON SCANNER FMI GR	295	1643

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	219.0	36	219.0	0.00	LOT
SURF.COND.	20	1101.0	26	1106.0	1.55	LOT
INTERM.	9 5/8	1642.0	12 1/4	1650.0	1.70	LOT
OPEN HOLE		2117.0	8 1/2	2117.0	0.00	LOT

Drilling mud





Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1106	1.29	24.0		WATER BASED	
1196	1.29	26.0		WATER BASED	
1650	1.35	33.0		WATER BASED	
1650	1.35	32.0		WATER BASED	
1819	1.22	32.0		WATER BASED	
2003	1.22	31.0		WATER BASED	
2117	1.22	31.0		WATER BASED	
2117	1.35	28.0		WATER BASED	