

**General information**

Wellbore name	25/8-4
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	BREIDABLIKK
Discovery	25/8-4 Breidablikk
Well name	25/8-4
Seismic location	EP 91-29 & SP. 314
Production licence	169
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	738-L
Drilling facility	VILDKAT EXPLORER
Drilling days	18
Entered date	25.07.1992
Completed date	11.08.1992
Release date	11.08.1994
Publication date	01.08.2010
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	PALEOCENE
1st level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	25.0
Water depth [m]	130.0
Total depth (MD) [m RKB]	1891.0
Final vertical depth (TVD) [m RKB]	1891.0
Maximum inclination [°]	2.1
Bottom hole temperature [°C]	71
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	HOD FM
Geodetic datum	ED50
NS degrees	59° 15' 31.31" N
EW degrees	2° 36' 42.97" E
NS UTM [m]	6569075.08
EW UTM [m]	477871.28



UTM zone	31
NPDID wellbore	1986

Wellbore history

General

Well 25/8-4 was drilled on the Utsira High, in the vicinity of the Balder Field area in the North Sea. The main objective was to test the hydrocarbon potential of the Paleocene sand in the Hedila structure, a seismic mounded structure within the prospect area. The location of the well was chosen in an area where thick sands were expected to be found in a high structural position. Additional targets were additional younger sand development in the Lista and Sele Formation.

Operations and results

Wildcat well 25/8-4 was spudded with the semi-submersible installation Vildkat Explorer on 25 July 1992 and drilled to TD at 1891 m in the Late Cretaceous Hod Formation. No significant problems were encountered during operations. The well was drilled with spud mud down to 241 m and with polymer mud from 241 m to TD. No shallow gas was observed.

The Lista Formation was encountered at 1710 m. A sequence of thin Heimdal Formation injection sands was recognised in the Lista Formation in the interval down to 1780 m where a 50 m thick massive Heimdal Formation was encountered. In total these injection sands made up 5.9 m net sand, which was all hydrocarbon bearing. Average porosity in this net was 32.0% with an average Sw of 10%. The main Heimdal Formation was found mainly water wet, with only a 1.5 m oil column from the top and down to an OWC at 1781.5 m (1756.5 m TVD MSL). Average porosity in the main Heimdal Formation was 33.9%. Oil shows in the Paleocene sandstones started to appear in top Balder Formation at 1670 m and ended in the OWC in the Heimdal sandstone at 1782 m. In addition, poor shows were observed on limestone over the interval 1841 m - 1852 m in the Ekofisk Formation.

Twelve cores were cut from 1659.6 m, in the lower part of the Hordaland Group, through the Balder, Lista and Heimdal Formations to 1840 m, 4 m into the top of the Våle Formation. Four good RFT pressure points were recorded in the Lista Formation giving a fluid density of 0.817 g/cc. One fluid sample was collected 1750.7 m and consisted of a mixture of 23 deg API oil, mud filtrate, and gas. Nine good RFT pressure points were taken in the main Heimdal Formation, resulting in a density gradient of 1.02 g/cc in the water zone.

The well was permanently abandoned on 11 August 1992 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]
1320.00	1890.00



Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1659.6	1670.0	[m]
2	1672.5	1694.0	[m]
3	1695.5	1706.0	[m]
4	1722.5	1746.0	[m]
5	1746.0	1759.0	[m]
6	1759.0	1777.0	[m]
7	1777.0	1794.7	[m]
8	1794.7	1811.0	[m]
9	1812.5	1829.0	[m]
10	1830.5	1837.0	[m]
11	1837.0	1837.5	[m]

Total core sample length [m]	154.4
Cores available for sampling?	YES

Core photos



1659-1664m



1664-1669m



1669-1670m



1672-1677m



1677-1682m



1682-1687m



1687-1692m



1692-1694m



1695-1700m



1700-1705m



1705-1706m



1722-1727m



1727-1732m



1737-1742m



1742-1746m



1746-1751m



1751-1756m



1756-1759m



1759-1764m



1764-1769m



1769-1774m



1774-1776m



1777-1782m



1782-1787m



1787-1792m



1792-1794m



1794-1799m



1799-1804m



1804-1809m



1809-1811m



1812-1817m



1817-1822m



1822-1827m



1827-1829m



1830-1835m



1835-1838m

**Palynological slides at the Norwegian Offshore Directorate**

Sample depth	Depth unit	Sample type	Laboratory
1320.0	[m]	DC	CGG
1410.0	[m]	DC	CGG
1535.0	[m]	DC	CGG
1666.6	[m]	C	CGG
1673.6	[m]	C	CGG
1674.4	[m]	C	CGG
1678.6	[m]	C	CGG
1679.4	[m]	C	CGG
1683.5	[m]	C	CGG
1689.3	[m]	C	CGG
1693.3	[m]	C	CGG
1701.2	[m]	C	CGG
1722.5	[m]	C	CGG
1726.5	[m]	C	CGG
1730.8	[m]	C	CGG
1746.4	[m]	C	CGG
1746.8	[m]	C	CGG
1748.2	[m]	C	CGG
1749.2	[m]	C	CGG
1750.3	[m]	C	CGG
1750.5	[m]	C	CGG
1751.7	[m]	C	CGG
1756.2	[m]	C	CGG
1758.5	[m]	C	CGG
1760.3	[m]	C	CGG
1764.2	[m]	C	CGG
1764.8	[m]	C	CGG
1771.8	[m]	C	CGG
1773.6	[m]	C	CGG
1777.7	[m]	C	CGG
1780.0	[m]	C	CGG
1782.9	[m]	C	CGG
1784.9	[m]	C	CGG
1788.2	[m]	C	CGG
1790.5	[m]	C	CGG
1795.5	[m]	C	CGG



1802.1	[m]	C	CGG
1808.1	[m]	C	CGG
1812.5	[m]	C	CGG
1816.8	[m]	C	CGG
1819.3	[m]	C	CGG
1826.7	[m]	C	CGG
1831.2	[m]	C	CGG
1833.1	[m]	C	CGG
1835.8	[m]	C	CGG
1836.9	[m]	C	CGG

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
155	NORDLAND GP
694	UTSIRA FM
744	NO FORMAL NAME
814	HORDALAND GP
814	SKADE FM
885	NO FORMAL NAME
900	SKADE FM
914	NO FORMAL NAME
939	SKADE FM
981	NO FORMAL NAME
1018	SKADE FM
1050	NO FORMAL NAME
1385	GRID FM
1390	NO FORMAL NAME
1670	ROGALAND GP
1670	BALDER FM
1710	LISTA FM
1780	HEIMDAL FM
1830	LISTA FM
1836	VÅLE FM
1841	SHETLAND GP
1841	EKOFISK FM
1846	TOR FM
1885	HOD FM



Geochemical information

Document name	Document format	Document size [MB]
1986_1	pdf	0.35
1986_2	pdf	0.66
1986_3	pdf	5.11

Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

Document name	Document format	Document size [MB]
1986_01_WDSS_General_Information	pdf	0.44
1986_02_WDSS_completion_log	pdf	0.13

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

Document name	Document format	Document size [MB]
1986_25_8_4_COMPLETION_REPORT_AND_LOG	pdf	12.73

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST GR	1317	1875
DIL DSI NGT AMS	1299	1889
DLL MSFL GR	1299	1885
FMI GR	1299	1888
LDL CNL GR	1299	1885
RFT	1385	1847
VELOCITY	1320	1870
VSP	530	1760
VSP	1740	1880

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	241.0	36	242.0	0.00	LOT
INTERM.	9 5/8	1300.0	12 1/4	1301.0	1.70	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
241	1.05			WATER BASED	
1673	1.28	18.0		WATER BASED	
1723	1.29	17.0		WATER BASED	
1759	1.30	16.0		WATER BASED	
1812	1.29	16.0		WATER BASED	
1837	1.30	16.0		WATER BASED	
1840	1.30	17.0		WATER BASED	
1891	1.30	19.0		WATER 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]
1986 Formation pressure (Formasjonstrykk)	pdf	0.19

