

**General information**

Wellbore name	30/9-11
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	30/9-11
Seismic location	NH 8502-187 CDP-LINJE 158 - COL 745
Production licence	104
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	652-L
Drilling facility	VILDKAT EXPLORER
Drilling days	24
Entered date	27.10.1990
Completed date	19.11.1990
Release date	19.11.1992
Publication date	06.01.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	109.0
Total depth (MD) [m RKB]	2570.0
Final vertical depth (TVD) [m RKB]	2568.0
Maximum inclination [°]	5.3
Bottom hole temperature [°C]	98
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	60° 19' 27.89" N
EW degrees	2° 55' 44" E
NS UTM [m]	6687700.50
EW UTM [m]	496072.29
UTM zone	31
NPDID wellbore	1673



Wellbore history

General

Well 30/9-11 was drilled on the eastern segment of the J-structure on the Oseberg Sør field in the North Sea. Neighbouring wells 30/9-9 on the J-West and 30/9-5 S on the J-Central proved oil and gas, respectively. The primary objective of well 30/9-11 was to prove reservoir sands and oil within the Brent Group of the J-East segment and define oil/water contacts for the Tarbert/Ness and Oseberg-Rannoch-Etive reservoirs. The well was planned to be drilled 50 m into the Dunlin Formation to a total depth of approximately 2540 m.

Operations and results

Wildcat well 30/9-11 was spudded with the semi-submersible installation Vildkat on 27 October 1990 and drilled to TD at 2570 m in the Early Jurassic Drake Formation. No significant problem was encountered in the operations. The well was drilled with spud mud down to 922 m and with KCl/polymer mud from 922 m to TD.

Top Viking Group, Heather Formation was encountered at 2291 m. Top Brent Group, Tarbert Formation was encountered at 2384 m. The Brent Group was entirely water bearing. Poor, patchy shows on thin sandstone lamina in the Heather Formation were the only indications of hydrocarbons in the well.

Four cores were cut with good recovery. Core 1 was cut from 2382 m to 2403 m in the Tarbert and Ness formations, cores 2 and 3 were cut from 2450 to 2464.5 m in the Ness Formation, and core 4 was cut from 2484 m to 2511 m in the Ness and Rannoch formations. RFT water samples were taken at 2493 m in the Ness Formation.

The well was plugged back for sidetracking on 19 November 1990. It is classified as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
930.00	2570.00

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	2382.0	2402.0	[m]
2	2450.0	2454.0	[m]



3	2455.0	2464.0	[m]
4	2484.0	2511.0	[m]

Total core sample length [m]	60.0
Cores available for sampling?	YES

Core photos

2382-2387m



2387-2392m



2392-2397m



2397-2402m



2450-2454m



2455-2460m



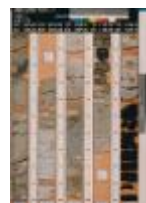
2460-2465m



2484-2489m



2489-2494m



2494-2499m



2499-2504m



2504-2509m



2509-2511m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
930.0	[m]	DC	STRAT
950.0	[m]	DC	STRAT
960.0	[m]	DC	STRAT
980.0	[m]	DC	STRAT
990.0	[m]	DC	STRAT
1010.0	[m]	DC	STRAT
1020.0	[m]	DC	STRAT
1040.0	[m]	DC	STRAT



1050.0	[m]	DC	STRAT
1080.0	[m]	DC	STRAT
1100.0	[m]	DC	STRAT
1110.0	[m]	DC	STRAT
1130.0	[m]	DC	STRAT
1140.0	[m]	DC	STRAT
1160.0	[m]	DC	STRAT
1170.0	[m]	DC	STRAT
1190.0	[m]	DC	STRAT
1200.0	[m]	DC	STRAT
1230.0	[m]	DC	STRAT
1250.0	[m]	DC	STRAT
1260.0	[m]	DC	STRAT
1280.0	[m]	DC	STRAT
1290.0	[m]	DC	STRAT
1310.0	[m]	DC	STRAT
1320.0	[m]	DC	STRAT
1340.0	[m]	DC	STRAT
1350.0	[m]	DC	STRAT
1380.0	[m]	DC	STRAT
1400.0	[m]	DC	STRAT
1410.0	[m]	DC	STRAT
1430.0	[m]	DC	STRAT
1440.0	[m]	DC	STRAT
1460.0	[m]	DC	STRAT
1490.0	[m]	DC	STRAT
1510.0	[m]	DC	STRAT
1540.0	[m]	DC	STRAT
1550.0	[m]	DC	STRAT
1570.0	[m]	DC	STRAT
1580.0	[m]	DC	STRAT
1600.0	[m]	DC	STRAT
1610.0	[m]	DC	STRAT
1630.0	[m]	DC	STRAT
1640.0	[m]	DC	STRAT
1660.0	[m]	DC	STRAT
1690.0	[m]	DC	STRAT
1700.0	[m]	DC	STRAT
1720.0	[m]	DC	STRAT
1730.0	[m]	DC	STRAT



1740.0 [m]	DC	STRAT
1760.0 [m]	DC	STRAT
1770.0 [m]	DC	STRAT
1790.0 [m]	DC	STRAT
1800.0 [m]	DC	STRAT
1830.0 [m]	DC	STRAT
1850.0 [m]	DC	STRAT
1860.0 [m]	DC	STRAT
1880.0 [m]	DC	STRAT
1890.0 [m]	DC	STRAT
1900.0 [m]	DC	STRAT
1910.0 [m]	DC	STRAT
1920.0 [m]	DC	STRAT
1930.0 [m]	DC	STRAT
1950.0 [m]	DC	STRAT
1960.0 [m]	DC	STRAT
1970.0 [m]	DC	STRAT
1980.0 [m]	DC	STRAT
1990.0 [m]	DC	STRAT
2000.0 [m]	DC	STRAT
2010.0 [m]	DC	STRAT
2020.0 [m]	DC	STRAT
2040.0 [m]	DC	STRAT
2055.0 [m]	DC	STRAT
2065.0 [m]	DC	STRAT
2086.0 [m]	DC	STRAT
2090.0 [m]	DC	STRAT
2100.0 [m]	DC	STRAT
2110.0 [m]	DC	STRAT
2120.0 [m]	DC	STRAT
2130.0 [m]	DC	STRAT
2140.0 [m]	DC	STRAT
2150.0 [m]	DC	STRAT
2160.0 [m]	DC	STRAT
2180.0 [m]	DC	STRAT
2200.0 [m]	DC	STRAT
2220.0 [m]	DC	STRAT
2230.0 [m]	DC	HYDRO
2240.0 [m]	DC	STRAT
2254.0 [m]	SWC	HYDRO



2260.0 [m]	DC	HYDRO
2277.0 [m]	SWC	HYDRO
2282.0 [m]	DC	HYDRO
2290.0 [m]	SWC	HYDRO
2297.6 [m]	SWC	HYDRO
2300.0 [m]	DC	HYDRO
2308.8 [m]	SWC	HYDRO
2316.6 [m]	SWC	HYDRO
2326.1 [m]	SWC	HYDRO
2334.0 [m]	SWC	HYDRO
2339.8 [m]	SWC	HYDRO
2346.0 [m]	SWC	HYDRO
2351.0 [m]	SWC	HYDRO
2358.0 [m]	SWC	HYDRO
2360.4 [m]	SWC	HYDRO
2365.5 [m]	SWC	HYDRO
2368.5 [m]	SWC	HYDRO
2370.8 [m]	SWC	HYDRO
2371.4 [m]	SWC	HYDRO
2378.1 [m]	SWC	HYDRO
2380.4 [m]	SWC	HYDRO
2382.0 [m]	DC	HYDRO
2382.1 [m]	C	HYDRO
2384.9 [m]	C	HYDRO
2387.2 [m]	C	HYDRO
2388.4 [m]	C	HYDRO
2390.0 [m]	C	HYDRO
2392.9 [m]	C	HYDRO
2397.5 [m]	C	HYDRO
2401.8 [m]	C	HYDRO
2416.0 [m]	SWC	HYDRO
2428.3 [m]	SWC	HYDRO
2450.7 [m]	C	HYDRO
2452.7 [m]	C	HYDRO
2457.9 [m]	C	HYDRO
2459.0 [m]	C	HYDRO
2461.5 [m]	C	HYDRO
2464.2 [m]	C	HYDRO
2468.5 [m]	SWC	HYDRO
2476.9 [m]	SWC	HYDRO



2480.0	[m]	DC	HYDRO
2499.1	[m]	C	HYDRO
2501.7	[m]	C	HYDRO
2504.6	[m]	C	HYDRO
2505.1	[m]	C	HYDRO
2506.0	[m]	C	HYDRO
2507.8	[m]	C	HYDRO
2509.0	[m]	C	HYDRO
2510.3	[m]	C	HYDRO
2512.5	[m]	SWC	HYDRO
2515.3	[m]	SWC	HYDRO
2520.0	[m]	SWC	HYDRO
2530.0	[m]	DC	STRAT
2540.0	[m]	DC	STRAT
2557.0	[m]	DC	STRAT
2567.0	[m]	DC	STRAT
2570.0	[m]	DC	HYDRO
2694.5	[m]	C	HYDRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
134	NORDLAND GP
651	UTSIRA FM
829	HORDALAND GP
1951	ROGALAND GP
1951	BALDER FM
2001	SELE FM
2050	LISTA FM
2188	VÅLE FM
2193	SHETLAND GP
2193	HARDRÅDE FM
2286	CROMER KNOLL GP
2291	VIKING GP
2291	HEATHER FM
2384	BRENT GP
2384	TARBERT FM
2390	NESS FM
2507	RANNOCH FM



2514	OSEBERG FM
2516	DUNLIN GP
2516	DRAKE FM

Geochemical information

Document name	Document format	Document size [MB]
1673 2	pdf	0.96

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

Document name	Document format	Document size [MB]
1673 01 WDSS General Information	pdf	0.19
1673 02 WDSS completion log	pdf	0.17

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

Document name	Document format	Document size [MB]
1673 30 9 11 Completion log	pdf	2.13
1673 30 9 11 Final Well Report	pdf	29.77

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL	1000	2242
CST GR	2244	2530
DIL LSS SP GR AMS	905	2247
DIL LSS SP GR AMS	2242	2565
FMS4 NGT AMS	2243	2562
LDL CNL GR	905	2247
LDL CNL GR	2242	2565
MWD - GR RES DIR	0	0
RFTB GR	2275	2504
VSP	1000	2560



**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	243.0	36	245.0	0.00	LOT
INTERM.	13 3/8	906.0	17 1/2	922.0	1.56	LOT
INTERM.	9 5/8	2242.0	12 1/4	2260.0	1.58	LOT
OPEN HOLE		2570.0	8 1/2	2570.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
245	1.05			WATER BASED	31.10.1990
758	1.05			WATER BASED	01.11.1990
922	1.05			WATER BASED	02.11.1990
922	1.20	22.0	8.0	WATER BASED	05.11.1990
1041	1.42	14.0	7.0	WATER BASED	19.11.1990
1164	1.20	23.0	10.0	WATER BASED	05.11.1990
1417	1.30	16.0	8.0	WATER BASED	05.11.1990
1918	1.40	18.0	9.0	WATER BASED	06.11.1990
2140	1.24	15.0	6.0	WATER BASED	19.11.1990
2224	1.40	18.0	9.0	WATER BASED	08.11.1990
2260	1.40	21.0	9.0	WATER BASED	08.11.1990
2260	1.40	19.0	8.0	WATER BASED	09.11.1990
2260	1.40	19.0	8.0	WATER BASED	13.11.1990
2351	1.40	13.0	6.0	WATER BASED	13.11.1990
2403	1.22	14.0	7.0	WATER BASED	13.11.1990
2455	1.60	16.0	6.0	WATER BASED	13.11.1990
2465	1.60	16.0	7.0	WATER BASED	14.11.1990
2511	1.22	15.0	7.0	WATER BASED	16.11.1990
2570	1.23	15.0	7.0	WATER BASED	16.11.1990
2570	1.23	15.0	6.0	WATER BASED	19.11.1990

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]
1673 Formation pressure (Formasjonstrykk)	pdf	0.22

