

**General information**

Wellbore name	30/9-11 A
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 1508 - COL 745
Production licence	104
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	658-L
Drilling facility	VILDKAT EXPLORER
Drilling days	40
Entered date	20.11.1990
Completed date	29.12.1990
Release date	29.12.1992
Publication date	06.01.2014
Purpose - planned	APPRAISAL
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	108.0
Total depth (MD) [m RKB]	3002.0
Final vertical depth (TVD) [m RKB]	2734.0
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
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	1705

**Wellbore history****General**

Well 30/9-11 A was drilled as a sidetrack to well 30/9-11 on the J-structure on the Oseberg Sør field in the North Sea.

The vertical 30/9-11 well drilled a dry Brent group in J-East segment. The sidetrack targeted the J-Central segment and should penetrate top of the Brent Group in a down flank position in order to confirm deep oil filling of the J-Central segment, where oil previously had been discovered by well 30/9-9. The primary target was the Brent Group. Secondary target was the Cook Formation.

Operations and results

Well 30/9-11 A was kicked off from 920 m in 30/9-11 on 20 November 1990. The well was drilled with the semi-submersible installation Vildkat to TD at 3002 m (2735 m TVD) in Early Jurassic sediments of the Statfjord Group. Apart from some tight hole problems and close to seven days wait on weather operations proceeded without significant problems. The well was drilled with KCl/polymer mud from kick-off to TD.

Top Viking Group, Heather Formation was encountered at 2513 m and top Brent Group, Ness Formation was encountered at 2553 m. The Ness Formation was water bearing, however moderate oil shows with strong petroleum odour was described on cores from top off the Ness Formation down to 2570 m. These shows were confirmed by relatively high organic geochemical extract yields with oil-mature biomarkers. Poor shows were described also in Shetland Group limestone from 2455 to 2457 m and in Heather Formation claystone from 2517 to 2520 m. Otherwise there were no indications of hydrocarbons in the well.

Three cores were cut in from 2545 to 2582 m in the Heather, Tarbert, and Ness Formation. A fourth core was cut from 2652 to 2660 m in the lower Ness Formation. Good recovery was obtained in all cores. RFT water samples were taken at 2551.6 m and 2558 m.

The well was permanently abandoned on 29 December 1990 as a dry well with shows.

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	3002.00

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	2545.0	2552.2	[m]



2	2553.0	2575.0	[m]
3	2576.0	2578.0	[m]
4	2652.0	2660.0	[m]

Total core sample length [m]	39.1
Cores available for sampling?	YES

Core photos

2545-2550m



2550-2555m



2555-2560m



2560-2565m



2565-2570m



2570-2574m



2576-2581m



2581-2581m



2652-2657m



2657-2659m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
940.0	[m]	DC	STRAT
960.0	[m]	DC	STRAT
970.0	[m]	DC	STRAT
990.0	[m]	DC	STRAT
1000.0	[m]	DC	STRAT
1020.0	[m]	DC	STRAT
1030.0	[m]	DC	STRAT
1050.0	[m]	DC	STRAT
1060.0	[m]	DC	STRAT
1080.0	[m]	DC	STRAT
1090.0	[m]	DC	STRAT
1110.0	[m]	DC	STRAT
1120.0	[m]	DC	STRAT



1140.0	[m]	DC	STRAT
1150.0	[m]	DC	STRAT
1170.0	[m]	DC	STRAT
1180.0	[m]	DC	STRAT
1200.0	[m]	DC	STRAT
1210.0	[m]	DC	STRAT
1230.0	[m]	DC	STRAT
1240.0	[m]	DC	STRAT
1260.0	[m]	DC	STRAT
1270.0	[m]	DC	STRAT
1290.0	[m]	DC	STRAT
1300.0	[m]	DC	STRAT
1320.0	[m]	DC	STRAT
1330.0	[m]	DC	STRAT
1350.0	[m]	DC	STRAT
1360.0	[m]	DC	STRAT
1380.0	[m]	DC	STRAT
1390.0	[m]	DC	STRAT
1410.0	[m]	DC	STRAT
1420.0	[m]	DC	STRAT
1440.0	[m]	DC	STRAT
1450.0	[m]	DC	STRAT
1470.0	[m]	DC	STRAT
1480.0	[m]	DC	STRAT
1500.0	[m]	DC	STRAT
1520.0	[m]	DC	STRAT
1530.0	[m]	DC	STRAT
1550.0	[m]	DC	STRAT
1560.0	[m]	DC	STRAT
1580.0	[m]	DC	STRAT
1590.0	[m]	DC	STRAT
1610.0	[m]	DC	STRAT
1620.0	[m]	DC	STRAT
1640.0	[m]	DC	STRAT
1650.0	[m]	DC	STRAT
1670.0	[m]	DC	STRAT
1690.0	[m]	DC	STRAT
1700.0	[m]	DC	STRAT
1720.0	[m]	DC	STRAT
1730.0	[m]	DC	STRAT



1750.0 [m]	DC	STRAT
1760.0 [m]	DC	STRAT
1780.0 [m]	DC	STRAT
1790.0 [m]	DC	STRAT
1810.0 [m]	DC	STRAT
1820.0 [m]	DC	STRAT
1840.0 [m]	DC	STRAT
1850.0 [m]	DC	STRAT
1870.0 [m]	DC	STRAT
1880.0 [m]	DC	STRAT
1900.0 [m]	DC	STRAT
1910.0 [m]	DC	STRAT
1930.0 [m]	DC	STRAT
1960.0 [m]	DC	STRAT
1970.0 [m]	DC	STRAT
1990.0 [m]	DC	STRAT
2000.0 [m]	DC	STRAT
2020.0 [m]	DC	STRAT
2030.0 [m]	DC	STRAT
2050.0 [m]	DC	STRAT
2060.0 [m]	DC	STRAT
2080.0 [m]	DC	STRAT
2090.0 [m]	DC	STRAT
2110.0 [m]	DC	STRAT
2120.0 [m]	DC	STRAT
2140.0 [m]	DC	STRAT
2150.0 [m]	DC	STRAT
2170.0 [m]	DC	STRAT
2180.0 [m]	DC	STRAT
2200.0 [m]	DC	STRAT
2210.0 [m]	DC	STRAT
2230.0 [m]	DC	STRAT
2240.0 [m]	DC	STRAT
2260.0 [m]	DC	STRAT
2270.0 [m]	DC	STRAT
2290.0 [m]	DC	STRAT
2300.0 [m]	DC	STRAT
2310.0 [m]	DC	STRAT
2325.0 [m]	DC	STRAT
2345.0 [m]	DC	STRAT



2370.0 [m]	DC	STRAT
2400.0 [m]	DC	STRAT
2409.0 [m]	DC	HYDRO
2417.0 [m]	DC	STRAT
2425.0 [m]	DC	STRAT
2431.5 [m]	SWC	HYDRO
2447.0 [m]	SWC	HYDRO
2460.0 [m]	DC	STRAT
2475.0 [m]	DC	STRAT
2485.0 [m]	DC	STRAT
2495.0 [m]	DC	STRAT
2505.0 [m]	DC	STRAT
2515.0 [m]	SWC	HYDRO
2521.0 [m]	SWC	HYDRO
2527.0 [m]	SWC	HYDRO
2536.0 [m]	SWC	HYDRO
2540.5 [m]	SWC	HYDRO
2542.0 [m]	SWC	HYDRO
2545.3 [m]	C	HYDRO
2545.9 [m]	C	HYDRO
2546.5 [m]	C	HYDRO
2546.7 [m]	C	HYDRO
2548.0 [m]	SWC	HYDRO
2548.3 [m]	C	HYDRO
2552.1 [m]	C	HYDRO
2553.5 [m]	C	HYDRO
2556.7 [m]	C	HYDRO
2559.9 [m]	C	HYDRO
2570.1 [m]	C	HYDRO
2570.8 [m]	C	HYDRO
2572.8 [m]	C	HYDRO
2581.4 [m]	C	HYDRO
2588.0 [m]	SWC	HYDRO
2591.0 [m]	SWC	HYDRO
2597.5 [m]	SWC	HYDRO
2608.0 [m]	SWC	HYDRO
2622.0 [m]	DC	HYDRO
2633.5 [m]	SWC	HYDRO
2644.0 [m]	SWC	HYDRO
2650.0 [m]	SWC	HYDRO



2652.0	[m]	C	HYDRO
2655.7	[m]	C	HYDRO
2657.7	[m]	C	HYDRO
2659.9	[m]	C	HYDRO
2670.0	[m]	SWC	HYDRO
2677.0	[m]	SWC	HYDRO
2680.0	[m]	DC	STRAT
2686.5	[m]	SWC	HYDRO
2696.0	[m]	DC	STRAT
2702.0	[m]	SWC	HYDRO
2715.0	[m]	DC	STRAT
2727.0	[m]	SWC	HYDRO
2747.0	[m]	DC	STRAT
2758.5	[m]	SWC	HYDRO
2770.0	[m]	DC	STRAT
2783.5	[m]	SWC	HYDRO
2794.0	[m]	SWC	HYDRO
2805.0	[m]	DC	STRAT
2815.0	[m]	DC	STRAT
2823.5	[m]	SWC	HYDRO
2832.0	[m]	DC	STRAT
2840.0	[m]	DC	STRAT
2850.0	[m]	DC	STRAT
2860.0	[m]	DC	STRAT
2870.0	[m]	DC	STRAT
2880.0	[m]	DC	STRAT
2890.0	[m]	DC	STRAT
2900.0	[m]	DC	STRAT
2910.0	[m]	DC	STRAT
2920.0	[m]	DC	STRAT
2930.0	[m]	DC	STRAT
2940.0	[m]	DC	STRAT
2950.0	[m]	DC	STRAT
2960.0	[m]	DC	STRAT
2970.0	[m]	DC	STRAT
2980.0	[m]	DC	STRAT
2990.0	[m]	DC	STRAT
3002.0	[m]	DC	HYDRO

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
910	HORDALAND GP
2092	ROGALAND GP
2092	BALDER FM
2137	SELE FM
2195	LISTA FM
2360	VÅLE FM
2365	SHETLAND GP
2365	HARDRÅDE FM
2498	CROMER KNOLL GP
2513	VIKING GP
2513	HEATHER FM
2551	BRENT GP
2551	TARBERT FM
2553	NESS FM
2667	RANNOCH FM
2679	OSEBERG FM
2680	DUNLIN GP
2680	DRAKE FM
2836	BURTON FM
2875	AMUNDSEN FM
2973	STATFJORD GP

Geochemical information

Document name	Document format	Document size [MB]
1705_1	pdf	0.37
1705_2	pdf	8.02

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

Document name	Document format	Document size [MB]
1705_01_WDSS_General_Information	pdf	0.21
1705_02_WDSS_completion_log	pdf	0.19



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

Document name	Document format	Document size [MB]
1705 30 9 11 A Completion log	pdf	1.97
1705 30 9 11 A Final Well Report	pdf	33.35

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST GR	2431	2823
DIL LSS GR SP AMS	906	2873
DLL GR SP CAL AMS	2525	2700
DLL MSFL GR SP CAL AMS	2393	2996
FMS4 GR	2396	2828
LDL CNL LSS CAL AMS	905	2872
MWD - GR RES DIR	884	2993
RFT AMS	2551	2660
RFT AMS	2551	0
RFT AMS	2558	0
VSP	1380	2810

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	0.00	LOT
INTERM.	9 5/8	2394.0	12 1/4	2425.0	1.63	LOT
OPEN HOLE		3002.0	8 1/2	3002.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
170	1.27			WATER BASED	27.12.1990
850	1.42	13.0	7.0	WATER BASED	20.11.1990
1037	1.42	20.0	9.0	WATER BASED	21.11.1990
1341	1.43	21.0	11.0	WATER BASED	22.11.1990





1705	1.46	22.0	10.0	WATER BASED	23.11.1990
2070	1.46	19.0	9.0	WATER BASED	27.11.1990
2205	1.48	19.0	9.0	WATER BASED	27.11.1990
2239	1.48	23.0	10.0	WATER BASED	27.11.1990
2321	1.48	24.0	8.0	WATER BASED	27.11.1990
2379	1.48	23.0	10.0	WATER BASED	28.11.1990
2419	1.47	20.0	8.0	WATER BASED	30.11.1990
2419	1.47	18.0	9.0	WATER BASED	04.12.1990
2419	1.48	24.0	11.0	WATER BASED	29.11.1990
2422	1.47	19.0	11.0	WATER BASED	04.12.1990
2422	1.44	18.0	9.0	WATER BASED	04.12.1990
2425	1.47	21.0	9.0	WATER BASED	04.12.1990
2480	1.27	17.0	6.0	WATER BASED	05.12.1990
2553	1.27	18.0	9.0	WATER BASED	10.12.1990
2582	1.27	17.0	7.0	WATER BASED	10.12.1990
2652	1.27	17.0	7.0	WATER BASED	10.12.1990
2665	1.27	14.0	8.0	WATER BASED	10.12.1990
2671	1.27	14.0		WATER BASED	10.12.1990
2973	1.27	14.0	6.0	WATER BASED	12.12.1990
3002	1.27	14.0	6.0	WATER BASED	13.12.1990
3002	1.33	15.0	10.0	WATER BASED	14.12.1990
3002	1.33	15.0	10.0	WATER BASED	18.12.1990
3002	1.33	15.0	11.0	WATER BASED	18.12.1990
3002	1.27	12.0	9.0	WATER BASED	18.12.1990
3002	1.27	11.0	9.0	WATER BASED	18.12.1990
3002	1.27	10.0	9.0	WATER BASED	19.12.1990
3002	1.27	11.0	10.0	WATER BASED	27.12.1990
3002	1.27	12.0	9.0	WATER BASED	27.12.1990
3002	1.27	14.0	6.0	WATER BASED	13.12.1990
3002	1.27	11.0	10.0	WATER BASED	21.12.1990

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]
1705 Formation pressure (Formasjonstrykk)	pdf	0.22

