

**General information**

Wellbore name	30/9-15
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	OSEBERG SØR
Discovery	30/9-15 Oseberg Sør
Well name	30/9-15
Seismic location	NH 8502R- ROW 585 & COLUMN 1481
Production licence	104
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	773-L
Drilling facility	WEST VANGUARD
Drilling days	30
Entered date	07.12.1993
Completed date	05.01.1994
Release date	05.01.1996
Publication date	28.05.2003
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	NESS FM
Kelly bushing elevation [m]	22.0
Water depth [m]	105.5
Total depth (MD) [m RKB]	2764.0
Final vertical depth (TVD) [m RKB]	2763.5
Maximum inclination [°]	2.61
Bottom hole temperature [°C]	104
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	60° 22' 18.63" N
EW degrees	2° 55' 24.8" E
NS UTM [m]	6692983.26
EW UTM [m]	495783.84



UTM zone	31
NPDID wellbore	2223

Wellbore history

General

Well 30/9-15 is located in the Eastern part of Block 30/9 on the Oseberg Sør Field. The primary objectives of the well were to test the hydrocarbon potential of the Brent Group, Cook, and the Statfjord Formations on the J-north compartment with respect to commercial volumes and future relinquishment decisions. It was not possible to locate a vertical well on the J-north compartment which could test all three reservoir levels in an optimal position. Priority was therefore given to the Brent reservoir, and the well location was chosen in order to prove hydrocarbons in the Brent Group, leaving a minimum of untested hydrocarbon potential in the lower Ness reservoir up dip of the well. Secondary objectives were to penetrate the Cook and Statfjord Formations shallower than the water up to (WUT) top Statfjord in well 30/9-5 (2564 m MSL).

Operations and results

Wildcat well 30/9-15 was spudded with the semisubmersible installation "West Vanguard" on 7 December 1993 and was drilled to a total depth of 2764 m in the Early Jurassic Statfjord Formation. The well was drilled with sea water and hi-vis pills down to top of 12 1/4" section at 936 m, and with ANCO 2000 mud with glycols from 936 to TD. The Brent Group was encountered at 2249 m and was proven to be oil bearing in the lower Ness Formation, with an ODT at 2348.5 m. The ORE (Oseberg/Rannoch/Etive) Formations contained residual oil. The Cook Formation was proven water bearing though moderate to weak shows were recorded from sidewall cores taken over the interval 2465.5 - 2475.5 m. The Statfjord Formation was proven water bearing. Three conventional cores were recovered from the intervals 2240 m to 2250 m (Hadråde, Åsgard, and Ness Formations), 2256m to 2281 m (Ness, ORE, and Drake Formations), and 2283 m to 2306 m (Drake Formation). A wire line MDT sample of acceptable quality was recovered from 2249.9 m in the oil zone in the Ness Formation. The well was plugged back and permanently abandoned as an oil discovery on 5 January 1994.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
949.45	2764.00

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	2240.0	2249.6	[m]
2	2256.0	2280.6	[m]
3	2283.5	2305.3	[m]

Total core sample length [m]	56.0
Cores available for sampling?	YES

Core photos

2240-2245m



2245-2249m



2256-2261m



2261-2266m



2266-2271m



2271-2276m



2276-2280m



2283-2288m



2288-2293m



2293-2298m



2298-2303m



2303-2305m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
949.4	[m]	DC	STRAT
959.4	[m]	DC	STRAT
969.4	[m]	DC	STRAT
979.4	[m]	DC	STRAT
989.4	[m]	DC	STRAT



999.4 [m]	DC	STRAT
1009.4 [m]	DC	STRAT
1039.4 [m]	DC	STRAT
1069.4 [m]	DC	STRAT
1099.4 [m]	DC	STRAT
1129.4 [m]	DC	STRAT
1159.4 [m]	DC	STRAT
1189.4 [m]	DC	STRAT
1219.4 [m]	DC	STRAT
1249.4 [m]	DC	STRAT
1279.4 [m]	DC	STRAT
1309.4 [m]	DC	STRAT
1339.4 [m]	DC	STRAT
1369.4 [m]	DC	STRAT
1399.4 [m]	DC	STRAT
1429.4 [m]	DC	STRAT
1459.4 [m]	DC	STRAT
1489.4 [m]	DC	STRAT
1519.4 [m]	DC	STRAT
1550.0 [m]	DC	STRAT
1560.0 [m]	DC	STRAT
1570.0 [m]	DC	STRAT
1580.0 [m]	DC	STRAT
1590.0 [m]	DC	STRAT
1600.0 [m]	DC	STRAT
1610.0 [m]	DC	STRAT
1640.0 [m]	DC	STRAT
1660.0 [m]	DC	STRAT
1670.0 [m]	DC	STRAT
1680.0 [m]	DC	STRAT
1690.0 [m]	DC	STRAT
1700.0 [m]	DC	STRAT
1730.0 [m]	DC	STRAT
1740.0 [m]	DC	STRAT
1750.0 [m]	DC	STRAT
1760.0 [m]	DC	STRAT
1790.0 [m]	DC	STRAT
1820.0 [m]	DC	STRAT
1830.0 [m]	DC	STRAT
1840.0 [m]	DC	STRAT



1850.0	[m]	DC	STRAT
1860.0	[m]	DC	STRAT
1870.0	[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
1940.0	[m]	DC	STRAT
1950.0	[m]	DC	STRAT
1960.0	[m]	DC	STRAT
1965.0	[m]	DC	STRAT
1970.0	[m]	DC	STRAT
1980.0	[m]	DC	STRAT
1985.0	[m]	DC	STRAT
1990.0	[m]	DC	STRAT
1995.0	[m]	DC	STRAT
2000.0	[m]	DC	STRAT
2010.0	[m]	DC	STRAT
2015.0	[m]	DC	STRAT
2020.0	[m]	DC	STRAT
2030.0	[m]	DC	STRAT
2040.0	[m]	DC	STRAT
2050.0	[m]	DC	STRAT
2055.0	[m]	DC	STRAT
2060.0	[m]	DC	STRAT
2070.0	[m]	DC	STRAT
2080.0	[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
2155.0	[m]	DC	STRAT
2160.0	[m]	DC	STRAT
2170.0	[m]	DC	STRAT
2180.0	[m]	DC	STRAT



2185.0	[m]	DC	STRAT
2190.0	[m]	DC	STRAT
2195.0	[m]	DC	STRAT
2202.0	[m]	DC	STRAT
2215.0	[m]	DC	STRAT
2220.0	[m]	DC	STRAT
2230.0	[m]	DC	STRAT
2240.0	[m]	DC	STRAT
2312.0	[m]	DC	STRAT
2320.0	[m]	DC	STRAT
2335.0	[m]	DC	STRAT
2340.0	[m]	DC	STRAT
2345.0	[m]	DC	STRAT
2350.0	[m]	DC	STRAT
2365.0	[m]	DC	STRAT
2370.0	[m]	DC	STRAT
2375.0	[m]	DC	STRAT
2380.0	[m]	DC	STRAT
2395.0	[m]	DC	STRAT
2410.0	[m]	DC	STRAT
2415.0	[m]	DC	STRAT
2425.0	[m]	DC	STRAT
2440.0	[m]	DC	STRAT
2457.0	[m]	DC	STRAT
2460.0	[m]	DC	STRAT
2465.0	[m]	DC	STRAT
2470.0	[m]	DC	STRAT
2485.0	[m]	DC	STRAT
2500.0	[m]	DC	STRAT
2515.0	[m]	DC	STRAT
2530.0	[m]	DC	STRAT
2545.0	[m]	DC	STRAT
2560.0	[m]	DC	STRAT
2575.0	[m]	DC	STRAT
2590.0	[m]	DC	STRAT
2600.0	[m]	DC	STRAT
2605.0	[m]	DC	STRAT
2620.0	[m]	DC	STRAT
2632.0	[m]	DC	STRAT
2650.0	[m]	DC	STRAT



2665.0	[m]	DC	STRAT
2682.0	[m]	DC	STRAT
2695.0	[m]	DC	STRAT
2710.0	[m]	DC	STRAT
2725.0	[m]	DC	STRAT
2740.0	[m]	DC	STRAT
2757.0	[m]	DC	STRAT
2764.0	[m]	DC	STRAT

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
128	NORDLAND GP
657	UTSIRA FM
718	UNDIFFERENTIATED
842	HORDALAND GP
1014	SKADE FM
1028	UNDIFFERENTIATED
1177	NO FORMAL NAME
1194	UNDIFFERENTIATED
1901	ROGALAND GP
1901	BALDER FM
1964	SELE FM
2009	LISTA FM
2151	VÅLE FM
2156	SHETLAND GP
2156	HARDRÅDE FM
2242	CROMER KNOLL GP
2242	ÅSGARD FM
2249	BRENT GP
2249	NESS FM
2265	UNDIFFERENTIATED
2276	DUNLIN GP
2276	DRAKE FM
2461	COOK FM
2489	AMUNDSEN FM
2616	STATEFJORD GP



Composite logs

Document name	Document format	Document size [MB]
2223	pdf	0.47

Geochemical information

Document name	Document format	Document size [MB]
2223_1	pdf	1.46
2223_2	pdf	1.89
2223_3	pdf	1.88
2223_4	pdf	1.94
2223_5	pdf	1.38
2223_6	pdf	1.23

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

Document name	Document format	Document size [MB]
2223_30_9_15_COMPLETION_REPORT_AND_LOG	pdf	10.08

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST GR	2248	2688
DIL SDT/LSS SP GR	217	934
DLL LDL CNL SDL SP AMS GR	927	2187
DLL MSFL LDL CNL NGT AMS	2201	2326
DLL MSFL SDL SP AMS GR	2201	2760
LDL CNL FMS AMS GR	2201	2755
MDT AMS	2249	2263
MDT AMS GR	2221	2738
MWD RGD - YGR RES DIR	127	2764
VSP	980	2752



**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	217.0	36	218.0	0.00	LOT
INTERM.	13 5/8	929.0	17 1/2	936.0	0.00	LOT
INTERM.	9 5/8	2201.0	12 1/4	2215.0	0.00	LOT
OPEN HOLE		2764.0	8 1/2	2764.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
128	1.03			WATER BASED	
218	1.20			WATER BASED	
245	1.05			WATER BASED	
623	1.03			WATER BASED	
900	1.45	28.0		WATER BASED	
936	1.39	36.0		WATER BASED	
1143	1.39	36.0		WATER BASED	
1905	1.45	34.0		WATER BASED	
2171	1.45	27.0		WATER BASED	
2215	1.45	27.0		WATER BASED	
2240	1.20	19.0		WATER BASED	
2280	1.20	19.0		WATER BASED	
2283	1.20	18.0		WATER BASED	
2306	1.20	15.0		WATER BASED	
2330	1.20	20.0		WATER BASED	
2448	1.20	15.0		WATER BASED	
2714	1.20	20.0		WATER BASED	
2764	1.20	20.0		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]
2223 Formation pressure (Formasjonstrykk)	pdf	0.22

