General information

Wellbore name	30/12-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	30/12-1
Seismic location	NH 9111-ROW 409 & COLUMN 1161
Production licence	171
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	774-L
Drilling facility	WEST VANGUARD
Drilling days	61
Entered date	06.01.1994
Completed date	07.03.1994
Release date	07.03.1996
Publication date	31.10.2003
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	22.0
Water depth [m]	113.0
Total depth (MD) [m RKB]	3641.0
Final vertical depth (TVD) [m RKB]	3640.5
Maximum inclination [°]	4.6
Bottom hole temperature [°C]	150
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	60° 8' 44.3'' N
EW degrees	2° 51' 6.54'' E
NS UTM [m]	6667796.28
EW UTM [m]	491770.63
UTM zone	31
NPDID wellbore	2248

Wellbore history

General

Well 30/12-1 is located ca 12 km south of the 30/9-16 discovery well on the Oseberg Field complex. It was drilled to reduce uncertainties about hydrocarbon migration in the eastern part of the block. The primary objectives of the well were to test the hydrocarbon potential of the Middle Jurassic Tarbert Formation with the Ness-Oseberg-Rannoch-Etive Formations and the Early Jurassic Cook and Statfjord Formations.

Operations and results

Exploration well 30/12-1 was spudded with the semi-submersible installation "West Vanguard" on 6 January 1994 and drilled to TD at 3641 m in the Early Jurassic Statfjord Formation. The well was drilled with seawater and bentonite hi-vis sweeps down to 1130 m and with "ANCO 2000" mud from 1130 m to TD.

The Tarbert Formation was penetrated at 2903 m and was found to be 86 m thick in this well. The Brent Group, the Cook Formation, and the Statfjord Formation were found to be water bearing. Three conventional cores with 65 to 99 % recovery were cut in sandstone with thin coal beds in the interval 2901 m to 2970 m. Core number 1 included the lowermost two metres of the Heather Formation, otherwise all cores were cut in the Tarbert Formation. No fluid samples were taken. The well was permanently abandoned as a dry well on 7 March 1994.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1140.00	3640.00

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	2901.0	2927.2	[m]
2	2927.6	2960.1	[m]
3	2961.0	2966.9	[m]

Total core sample length [m]	64.7
Cores available for sampling?	YES

Core photos


2901-2906m


2906-2911m


2911-2916m


2916-2921m


2921-2926m


2926-2927m


2927-2932m


2932-2937m


2937-2942m


2942-2947m


2947-2952m


2952-2957m


2957-2960m


2961-2966m


2966-2967m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1140.0	[m]	DC	HYDRO
1160.0	[m]	DC	HYDRO
1180.0	[m]	DC	HYDRO
1200.0	[m]	DC	HYDRO
1220.0	[m]	DC	HYDRO
1240.0	[m]	DC	HYDRO
1260.0	[m]	DC	HYDRO
1280.0	[m]	DC	HYRDRO
1300.0	[m]	DC	HYDRO
1320.0	[m]	DC	HYDRO
1340.0	[m]	DC	HYDRO
1356.0	[m]	SWC	HYDRO
1360.0	[m]	DC	HYDRO
1380.0	[m]	DC	HYDRO

1400.0	[m]	DC	HYDRO
1420.0	[m]	DC	HYDRO
1440.0	[m]	DC	HYDRO
1460.0	[m]	DC	HYDRO
1491.0	[m]	SWC	HYDRO
1500.0	[m]	DC	HYDRO
1520.0	[m]	DC	HYDRO
1540.0	[m]	DC	HYDRO
1560.0	[m]	DC	HYDRO
1580.0	[m]	SWC	HYDRO
1600.0	[m]	DC	HYDRO
1620.0	[m]	DC	HYDRO
1640.0	[m]	DC	HYDRO
1660.0	[m]	DC	HYDRO
1680.0	[m]	DC	HYDRO
1700.0	[m]	DC	HYDRO
1723.0	[m]	SWC	HYDRO
1740.0	[m]	DC	HYDRO
1760.0	[m]	DC	HYDRO
1780.0	[m]	DC	HYDRO
1800.0	[m]	DC	HYDRO
1816.0	[m]	SWC	HYDRO
1840.0	[m]	DC	HYDRO
1860.0	[m]	DC	HYDRO
1880.0	[m]	DC	HYDRO
1900.0	[m]	DC	HYDRO
1917.0	[m]	SWC	HYDRO
1940.0	[m]	DC	HYDRO
1960.0	[m]	DC	HYDRO
1980.0	[m]	DC	HYDRO
2020.0	[m]	DC	HYDRO
2040.0	[m]	DC	HYDRO
2060.0	[m]	DC	HYDRO
2080.0	[m]	DC	HYDRO
2095.0	[m]	SWC	HYDRO
2157.0	[m]	SWC	HYDRO
2209.0	[m]	SWC	HYDRO
2235.0	[m]	SWC	HYDRO
2253.0	[m]	SWC	HYDRO
2280.0	[m]	DC	HYDRO

2302.0	[m]	SWC	HYDRO
2320.0	[m]	DC	HYDRO
2340.0	[m]	DC	HYDRO
2360.0	[m]	DC	HYDRO
2380.0	[m]	DC	HYDRO
2400.0	[m]	DC	HYDRO
2420.0	[m]	SWC	HYDRO
2420.0	[m]	DC	HYDRO
2440.0	[m]	DC	HYDRO
2460.0	[m]	DC	HYDRO
2480.0	[m]	DC	HYDRO
2520.0	[m]	DC	HYDRO
2550.0	[m]	DC	HYDRO
2560.0	[m]	DC	HYDRO
2610.0	[m]	DC	HYDRO
2620.0	[m]	DC	HYDRO
2630.0	[m]	DC	HYDRO
2640.0	[m]	DC	HYDRO
2650.0	[m]	DC	HYDRO
2660.0	[m]	DC	HYDRO
2670.0	[m]	DC	HYDRO
2690.0	[m]	DC	HYDRO
2705.0	[m]	DC	HYDRO
2710.0	[m]	DC	HYDRO
2730.0	[m]	DC	HYDRO
2740.0	[m]	DC	HYDRO
2750.0	[m]	DC	HYDRO
2762.0	[m]	DC	HYDRO
2770.0	[m]	DC	HYDRO
2787.0	[m]	DC	HYDRO
2796.0	[m]	SWC	HYDRO
2805.0	[m]	DC	HYDRO
2812.0	[m]	SWC	HYDRO
2820.0	[m]	SWC	HYDRO
2822.0	[m]	DC	HYDRO
2830.0	[m]	SWC	HYDRO
2836.0	[m]	SWC	HYDRO
2842.0	[m]	DC	HYDRO
2850.0	[m]	DC	HYDRO
2857.0	[m]	DC	HYDRO

2865.0	[m]	SWC	HYDRO
2875.0	[m]	SWC	HYDRO
2886.0	[m]	SWC	HYDRO
2897.5	[m]	SWC	HYDRO
2918.3	[m]	C	HYDRO
2921.7	[m]	C	HYDRO
2944.0	[m]	C	HYDRO
2944.1	[m]	C	UNIV.SHE
2955.9	[m]	C	HYDRO
2960.0	[m]	C	HYDRO
2961.3	[m]	C	HYDRO
2967.0	[m]	C	HYDRO
2992.5	[m]	SWC	HYDRO
3001.0	[m]	SWC	HYDRO
3010.5	[m]	SWC	HYDRO
3020.0	[m]	SWC	HYDRO
3029.5	[m]	SWC	HYDRO
3037.0	[m]	DC	HYDRO
3042.0	[m]	SWC	HYDRO
3050.0	[m]	DC	HYDRO
3057.0	[m]	DC	HYDRO
3078.0	[m]	SWC	HYDRO
3080.0	[m]	DC	HYDRO
3085.0	[m]	SWC	HYDRO
3090.0	[m]	SWC	HYDRO
3111.5	[m]	SWC	HYDRO
3135.0	[m]	SWC	HYDRO
3146.0	[m]	SWC	HYDRO
3155.0	[m]	DC	HYDRO
3165.0	[m]	DC	HYDRO
3175.0	[m]	DC	HYDRO
3185.0	[m]	SWC	HYDRO
3190.0	[m]	DC	HYDRO
3200.0	[m]	DC	HYDRO
3210.0	[m]	DC	HYDRO
3220.0	[m]	DC	HYDRO
3230.0	[m]	DC	HYDRO
3240.0	[m]	DC	HYDRO
3250.0	[m]	DC	HYDRO
3260.0	[m]	DC	HYDRO

3270.0	[m]	DC	HYDRO
3270.0	[m]	SWC	HYDRO
3280.0	[m]	DC	HYDRO
3290.0	[m]	DC	HYDRO
3300.0	[m]	DC	HYDRO
3310.0	[m]	DC	HYDRO
3320.0	[m]	DC	HYDRO
3330.0	[m]	DC	HYDRO
3340.0	[m]	DC	HYDRO
3350.0	[m]	DC	HYDRO
3360.0	[m]	DC	HYDRO
3370.0	[m]	DC	HYDRO
3380.0	[m]	DC	HYDRO
3390.0	[m]	DC	HYDRO
3400.0	[m]	SWC	HYDRO
3410.0	[m]	DC	HYDRO
3420.0	[m]	DC	HYDRO
3428.0	[m]	SWC	HYDRO
3440.0	[m]	DC	HYDRO
3450.0	[m]	DC	HYDRO
3460.0	[m]	DC	HYDRO
3470.0	[m]	DC	HYDRO
3480.0	[m]	DC	HYDRO
3490.0	[m]	DC	HYDRO
3500.0	[m]	DC	HYDRO
3510.0	[m]	DC	HYDRO
3520.0	[m]	DC	HYDRO
3530.0	[m]	DC	HYDRO
3542.0	[m]	SWC	HYDRO
3550.0	[m]	DC	HYDRO
3557.0	[m]	DC	HYDRO
3567.0	[m]	DC	HYDRO
3580.0	[m]	DC	HYDRO
3590.0	[m]	DC	HYDRO
3600.0	[m]	DC	HYDRO
3613.5	[m]	SWC	HYDRO
3620.0	[m]	DC	HYDRO
3630.0	[m]	DC	HYDRO
3640.0	[m]	DC	HYDRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
135	NORDLAND GP
648	UTSIRA FM
772	UNDIFFERENTIATED
899	HORDALAND GP
2136	FRIGG FM
2156	ROGALAND GP
2156	BALDER FM
2205	SELE FM
2270	LISTA FM
2416	VÅLE FM
2429	SHETLAND GP
2429	HARDRÅDE FM
2544	KYRRE FM
2610	SVARTE FM
2622	CROMER KNOLL GP
2622	RØDBY FM
2693	SOLA FM
2712	ÅSGARD FM
2795	VIKING GP
2795	DRAUPNE FM
2852	HEATHER FM
2903	BRENT GP
2903	TARBERT FM
2989	NESS FM
3133	DUNLIN GP
3133	DRAKE FM
3409	COOK FM
3417	BURTON FM
3549	AMUNDSEN FM
3596	STATFJORD GP

Composite logs

Document name	Document format	Document size [MB]
2248	pdf	0.71

Geochemical information

Document name	Document format	Document size [MB]
2248_1	pdf	1.70
2248_2	pdf	0.40

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

Document name	Document format	Document size [MB]
2248_30_12_1_COMPLETION_REPORT_AND_LOG	pdf	22.01

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST	1356	2836
CST	1356	2836
CST	2865	3613
DIL SDL/LSS GR SP AMS	220	1125
DLL MSFL SDT LDL CNL GR SP AMS	1015	2843
DLL MSFL SDT/LSS GR SP AMS	2809	3643
LDL CNL FMS GR AMS	2804	3643
MWD RGD - GR RES DIR	136	3580
RFT	2912	3619
VSP	200	2750
VSP	2600	3630

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.	13 3/8	1120.0	17 1/2	1122.0	0.00	LOT
INTERM.	9 5/8	2802.0	12 1/4	2804.0	0.00	LOT
OPEN HOLE		3641.0	8 1/2	3641.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
185	1.41	17.0		WATER BASED	
220	1.05			WATER BASED	
708	1.05			WATER BASED	
1006	1.45	17.0		WATER BASED	
1130	1.20			WATER BASED	
1769	1.45	33.0		WATER BASED	
1895	1.45	27.0		WATER BASED	
2151	1.39	34.0		WATER BASED	
2317	1.39	32.0		WATER BASED	
2500	1.45	27.0		WATER BASED	
2558	1.45	21.0		WATER BASED	
2648	1.45	22.0		WATER BASED	
2711	1.45	23.0		WATER BASED	
2791	1.45	24.0		WATER BASED	
2842	1.45	24.0		WATER BASED	
2961	1.23	20.0		WATER BASED	
2996	1.20	18.0		WATER BASED	
3315	1.20	19.0		WATER BASED	
3585	1.21	15.0		WATER BASED	
3641	1.23	18.0		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]
2248_Formation_pressure_(Formasjonstrykk)	pdf	0.22