General information

Wellbore name	30/6-24 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	30/6-24
Seismic location	NH 850 - 110 SP. 182
Production licence	170
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	700-L
Drilling facility	VILDKAT EXPLORER
Drilling days	55
Entered date	13.10.1991
Completed date	06.12.1991
Release date	06.12.1993
Publication date	29.03.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	120.0
Total depth (MD) [m RKB]	3986.0
Final vertical depth (TVD) [m RKB]	3742.0
Maximum inclination [°]	33.9
Bottom hole temperature [°C]	140
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	LUNDE FM
Geodetic datum	ED50
NS degrees	60° 42' 2.74'' N
EW degrees	2° 41' 34.28'' E
NS UTM [m]	6729655.59
EW UTM [m]	483230.99
UTM zone	31
NPDID wellbore	1855

Wellbore history

General

Well 30/6-24 S was drilled on the Delta Structure, some 5 km north of the main Oseberg Field area. The primary objective was to test the hydrocarbon potential of the Statfjord Formation.

Operations and results

Wildcat well was spudded with the semi-submersible installation Vildkat Explorer on 13 October 1991 and drilled to TD at 3986 m (3742 m TVD). The well was offset from the target location and deviated below 1035 m due to the proximity of a 30" gas pipeline above the target co-ordinates. An 8 1/2" pilot hole was drilled from 231 m to 422 m to check for shallow gas, but no shallow gas was found. The well was drilled with spud mud down to 1017 m, with KCl mud from 1017 m to 3300 m, and with Thermadril WBM mud from 3300 m to TD. When running the 9 5/8" casing it stuck at 3052 m. A spot of 25 m3 EZ spot/diesel was added to free the casing and this oil was in the mud down to 3974 m.

An oil show was recorded on cuttings from a limestone stringer at 2505 m. Top Jurassic, Dunlin Group came in at 3581 m. Dunlin Group had sporadic weak shows on siltstone cuttings. Top of target reservoir Statfjord Group was encountered at 3683 m. It was water bearing with oil shows on core no 1 in a 2-meter zone from 3686 m to 3688 m. Otherwise no hydrocarbon indications were recorded in the well.

Two cores were cut in the top of the Statfjord Group from 3682 m to 3712 m. No wire line fluid samples were taken.

The well was permanently abandoned on 6 December 1991 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]
1040.00	3985.00

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	3682.0	3692.0	[m]
2	3696.5	3712.0	[m]

Total core sample length [m]	25.5

Cores available for sampling?	YES

Core photos


3682-3687m


3687-3692m


3696-3701m


3701-3706m


3706-3711m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1130.0	[m]	DC	SPT
1160.0	[m]	DC	SPT
1190.0	[m]	DC	SPT
1220.0	[m]	DC	SPT
1250.0	[m]	DC	SPT
1280.0	[m]	DC	SPT
1310.0	[m]	DC	SPT
1340.0	[m]	DC	SPT
1370.0	[m]	DC	SPT
1400.0	[m]	DC	SPT
1430.0	[m]	DC	SPT
1460.0	[m]	DC	SPT
1490.0	[m]	DC	SPT
1520.0	[m]	DC	SPT
1550.0	[m]	DC	SPT
1580.0	[m]	DC	SPT
1610.0	[m]	DC	SPT
1640.0	[m]	DC	SPT
1670.0	[m]	DC	SPT
1700.0	[m]	DC	SPT
1730.0	[m]	DC	SPT
1760.0	[m]	DC	SPT
1790.0	[m]	DC	SPT
1820.0	[m]	DC	SPT

1850.0	[m]	DC	SPT
1880.0	[m]	DC	SPT
1910.0	[m]	DC	SPT
1940.0	[m]	DC	SPT
2030.0	[m]	DC	SPT
2060.0	[m]	DC	SPT
2120.0	[m]	DC	SPT
2130.0	[m]	DC	SPT
2150.0	[m]	DC	SPT
2170.0	[m]	DC	SPT
2180.0	[m]	DC	SPT
2210.0	[m]	DC	SPT
2230.0	[m]	DC	SPT
2240.0	[m]	DC	SPT
2270.0	[m]	DC	SPT
2300.0	[m]	DC	SPT
2320.0	[m]	DC	SPT
2330.0	[m]	DC	SPT
2350.0	[m]	DC	SPT
2360.0	[m]	DC	SPT
2390.0	[m]	DC	SPT
2410.0	[m]	DC	SPT
2420.0	[m]	DC	SPT
2440.0	[m]	DC	SPT
2450.0	[m]	DC	SPT
2470.0	[m]	DC	SPT
2480.0	[m]	DC	SPT
2500.0	[m]	DC	SPT
2510.0	[m]	DC	SPT
2525.0	[m]	DC	SPT
2540.0	[m]	DC	SPT
2555.0	[m]	DC	SPT
2570.0	[m]	DC	SPT
2600.0	[m]	DC	SPT
2615.0	[m]	DC	SPT
2630.0	[m]	DC	SPT
2645.0	[m]	DC	SPT
2675.0	[m]	DC	SPT
2720.0	[m]	DC	SPT
2735.0	[m]	DC	SPT

2750.0	[m]	DC	SPT
2765.0	[m]	DC	SPT
2780.0	[m]	DC	SPT
2795.0	[m]	DC	SPT
2810.0	[m]	DC	SPT
2825.0	[m]	DC	SPT
2840.0	[m]	DC	SPT
2855.0	[m]	DC	SPT
2870.0	[m]	DC	SPT
2885.0	[m]	DC	SPT
2900.0	[m]	DC	SPT
2915.0	[m]	DC	SPT
2930.0	[m]	DC	SPT
2945.0	[m]	DC	SPT
2960.0	[m]	DC	SPT
2975.0	[m]	DC	SPT
2990.0	[m]	DC	SPT
3005.0	[m]	DC	SPT
3020.0	[m]	DC	SPT
3035.0	[m]	DC	SPT
3050.0	[m]	DC	SPT
3065.0	[m]	DC	SPT
3095.0	[m]	DC	SPT
3260.0	[m]	DC	SPT
3275.0	[m]	DC	SPT
3290.0	[m]	DC	SPT
3305.0	[m]	DC	SPT
3320.0	[m]	DC	SPT
3335.0	[m]	DC	SPT
3350.0	[m]	DC	SPT
3365.0	[m]	DC	SPT
3380.0	[m]	DC	SPT
3395.0	[m]	DC	SPT
3410.0	[m]	DC	SPT
3425.0	[m]	DC	SPT
3440.0	[m]	DC	SPT
3455.0	[m]	DC	SPT
3472.0	[m]	DC	SPT
3485.0	[m]	DC	SPT
3500.0	[m]	DC	SPT

3515.0	[m]	DC	SPT
3527.0	[m]	DC	SPT
3547.0	[m]	DC	SPT
3575.0	[m]	DC	SPT
3580.0	[m]	DC	SPT
3582.0	[m]	DC	SPT
3585.0	[m]	DC	SPT
3590.0	[m]	DC	SPT
3600.0	[m]	DC	SPT
3602.0	[m]	DC	SPT
3605.0	[m]	DC	SPT
3615.0	[m]	DC	SPT
3625.0	[m]	DC	SPT
3635.0	[m]	DC	SPT
3645.0	[m]	DC	SPT
3655.0	[m]	DC	SPT
3665.0	[m]	DC	SPT
3675.0	[m]	DC	SPT
3683.7	[m]	C	HYDRO
3685.0	[m]	DC	SPT
3686.0	[m]	C	HYDRO
3689.5	[m]	C	HYDRO
3691.8	[m]	C	HYDRO
3691.9	[m]	C	HYDRO
3696.5	[m]	C	HYDRO
3704.5	[m]	C	HYDRO
3707.3	[m]	C	HYDRO
3707.8	[m]	C	HYDRO
3709.9	[m]	C	HYDRO
3745.0	[m]	DC	SPT
3755.0	[m]	DC	SPT
3765.0	[m]	DC	SPT
3775.0	[m]	DC	SPT
3785.0	[m]	DC	SPT
3795.0	[m]	DC	SPT
3805.0	[m]	DC	SPT
3815.0	[m]	DC	SPT
3825.0	[m]	DC	SPT
3835.0	[m]	DC	SPT
3845.0	[m]	DC	SPT

3855.0	[m]	DC	SPT
3865.0	[m]	DC	SPT
3875.0	[m]	DC	SPT
3885.0	[m]	DC	SPT
3905.0	[m]	DC	SPT
3915.0	[m]	DC	SPT
3927.0	[m]	DC	SPT
3935.0	[m]	DC	SPT
3947.0	[m]	DC	SPT
3955.0	[m]	DC	SPT
3965.0	[m]	DC	SPT

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
145	NORDLAND GP
716	UTSIRA FM
923	HORDALAND GP
2107	ROGALAND GP
2107	BALDER FM
2197	SELE FM
2247	LISTA FM
2377	VÅLE FM
2442	SHETLAND GP
3575	CROMER KNOLL GP
3581	DUNLIN GP
3581	AMUNDSEN FM
3682	STATFJORD GP
3940	HEGRE GP
3940	LUNDE FM

Geochemical information

Document name	Document format	Document size [MB]
1855_1	pdf	0.17
1855_2	pdf	2.81

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

Document name	Document format	Document size [MB]
1855_01_WDSS_General_Information	pdf	0.49
1855_02_WDSS_completion_log	pdf	0.22

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

Document name	Document format	Document size [MB]
1855_30_6_24_S_COMPLETION_REPORT_AND_LOG	pdf	12.63

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DIL LSS SP GR AMS	970	2987
DIL LSS SP GR AMS	3056	3989
FMS4 GR AMS	3056	3990
LDL CNL GR CAL AMS	970	2987
LDL CNL GR CAL AMS	3056	3990
MWD	145	3741
RFT HP GR AMS	3687	3783
VSP	300	3560
VSP	1400	3040
VSP	3940	3960

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	231.0	36	231.0	0.00	LOT
INTERM.	13 3/8	1004.0	17 1/2	1017.0	1.95	LOT
INTERM.	9 5/8	3052.0	12 1/4	3070.0	1.80	LOT
OPEN HOLE		3986.0	8 1/2	3986.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
199	1.05			WATER BASED	15.10.1991
231	1.05			WATER BASED	15.10.1991
422	1.05			WATER BASED	17.10.1991
863	1.05			WATER BASED	18.10.1991
1017	1.20			WATER BASED	18.10.1991
1017	1.20			WATER BASED	21.10.1991
1017	0.00			WATER BASED	21.10.1991
1017	1.08			WATER BASED	22.10.1991
1017	1.20			WATER BASED	21.10.1991
1195	1.10	10.0	5.0	WATER BASED	23.10.1991
1458	1.38	17.0	10.0	WATER BASED	24.10.1991
1740	1.40	14.0	9.0	WATER BASED	25.10.1991
2206	1.40	15.0	10.0	WATER BASED	29.10.1991
2264	1.41	18.0	12.0	WATER BASED	29.10.1991
2457	1.40	23.0	11.0	WATER BASED	29.10.1991
2722	1.39	26.0	13.0	WATER BASED	31.10.1991
2742	1.40	21.0	12.0	WATER BASED	01.11.1991
2745	1.40	18.0	12.0	WATER BASED	04.11.1991
2794	1.40	26.0	12.0	WATER BASED	04.11.1991
2906	1.46	24.0	10.0	WATER BASED	04.11.1991
2966	1.40	25.0	13.0	WATER BASED	05.11.1991
3026	1.40	25.0	10.0	WATER BASED	06.11.1991
3070	1.40	26.0	14.0	WATER BASED	08.11.1991
3070	1.39	26.0	13.0	WATER BASED	12.11.1991
3070	1.40	25.0	13.0	WATER BASED	07.11.1991
3070	1.40	22.0	13.0	WATER BASED	12.11.1991
3070	1.40	23.0	11.0	WATER BASED	12.11.1991
3070	1.40	23.0	9.0	WATER BASED	12.11.1991
3112	1.34	20.0	10.0	WATER BASED	13.11.1991
3165	1.32	23.0	10.0	WATER BASED	14.11.1991
3326	1.30	20.0	10.0	WATER BASED	15.11.1991
3412	1.37	22.0	11.0	WATER BASED	19.11.1991
3530	1.41	26.0	9.0	WATER BASED	19.11.1991
3541	1.40	20.0	11.0	WATER BASED	19.11.1991
3587	1.40	19.0	10.0	WATER BASED	19.11.1991
3587	1.39	16.0	9.0	WATER BASED	20.11.1991
3632	1.40	18.0	10.0	WATER BASED	21.11.1991

3689	1.41	17.0	7.0	WATER BASED	22.11.1991
3712	1.41	19.0	9.0	WATER BASED	25.11.1991
3819	1.40	20.0	11.0	WATER BASED	25.11.1991
3974	1.40	19.0	12.0	WATER BASED	25.11.1991
3986	1.40	16.0	9.0	WATER BASED	26.11.1991
3986	1.40	17.0	9.0	WATER BASED	27.11.1991
3986	1.40	15.0	6.0	WATER BASED	28.11.1991
3986	1.40	21.0	8.0	WATER BASED	02.12.1991
3986	1.40	21.0	7.0	WATER BASED	29.11.1991
3986	1.40	21.0	11.0	WATER BASED	02.12.1991

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]
1855_Formation_pressure_(Formasjonstrykk)	pdf	0.24