General information

Wellbore name	6507/2-3
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Well name	6507/2-3
Seismic location	B-10-83 sp 1420
Production licence	122
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	785-L
Drilling facility	WEST VANGUARD
Drilling days	53
Entered date	14.03.1994
Completed date	05.05.1994
Release date	05.05.1996
Publication date	15.11.2001
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	22.0
Water depth [m]	355.0
Total depth (MD) [m RKB]	3972.0
Final vertical depth (TVD) [m RKB]	3970.0
Maximum inclination [°]	1.3
Bottom hole temperature [°C]	140
Oldest penetrated age	LATE JURASSIC
Oldest penetrated formation	SPEKK FM
Geodetic datum	ED50
NS degrees	65° 51' 59.9'' N
EW degrees	7° 39' 58.88'' E
NS UTM [m]	7305876.36
EW UTM [m]	439155.08
UTM zone	32
NPDID wellbore	2299

Wellbore history

General

The primary objectives of the well were to test the hydrocarbon potential of the Lysing and Intra Lange Formations and further to test the reservoir quality and reservoir potential of a prospect lead in the Lyr Formation.

Operations and results

Well 6507/2-3 was spudded on 14th of March 1994, and reached a total depth of 3972 m RKB in the lowermost part of the Spekk Formation, on 22nd of April 1994. Water based mud was used with Spud mud to 1465 m RKB, "ANCO 2000" from there to 3141 m, and KCl/polymer from there to TD. The primary target, the Lysing Formation, was encountered from 2850m to 2891m RKB, and was water bearing. It consisted of a fairly massive sandstone sequence. The secondary target, the Intra Lange Formation sandstone interval at 3250.5 -3281m RKB, comprised a heterogeneous reservoir with very poor reservoir properties and residual oil. Two RFT runs were performed; one each in the Lysing and Lange Fm. A successful fluid sample was taken at 2852.6 m in the Lysing Fm. In the Lange Fm. a fluid sample was attempted and finally aborted due to low reservoir permeability. No reservoir was penetrated in the Lyr Fm. Two cores were cut from 2850 to 2891 m in the Lysing Formation and one from 3254 to 3264 m in the Lange Formation. The well was plugged and abandoned on 5th of may 1994 as a dry well with oil shows.

Testing

No DST was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1470.00	3972.00

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	2850.0	2878.0	[m]
2	2878.0	2890.9	[m]
3	3254.0	3263.8	[m]

Total core sample length [m]	50.7
Cores available for sampling?	YES

Core photos


2850-2854m


2854-2858m


2858-2862m


2862-2866m


2866-2870m


2870-2874m


2874-2878m


2878-2882m


2882-2886m


2886-2900m


2890-2891m


3254-3259m


3259-3263m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1470.0	[m]	DC	STRAT
1490.0	[m]	DC	STRAT
1500.0	[m]	DC	STRAT
1510.0	[m]	DC	STRAT
1520.0	[m]	DC	STRAT
1530.0	[m]	DC	STRAT
1540.0	[m]	DC	STRAT
1560.0	[m]	DC	STRAT
1590.0	[m]	DC	STRAT
1620.0	[m]	DC	STRAT
1650.0	[m]	DC	STRAT
1680.0	[m]	DC	STRAT
1690.0	[m]	DC	STRAT
1695.0	[m]	SWC	STRAT

1710.0	[m]	DC	STRAT
1725.0	[m]	SWC	STRAT
1740.0	[m]	SWC	STRAT
1750.0	[m]	DC	STRAT
1772.0	[m]	SWC	STRAT
1790.0	[m]	SWC	STRAT
1800.0	[m]	DC	STRAT
1810.0	[m]	DC	STRAT
1827.0	[m]	SWC	STRAT
1840.0	[m]	DC	STRAT
1842.0	[m]	SWC	STRAT
1850.0	[m]	DC	STRAT
1856.0	[m]	SWC	STRAT
1880.0	[m]	SWC	STRAT
1890.0	[m]	DC	STRAT
1900.0	[m]	DC	STRAT
1916.0	[m]	SWC	STRAT
1920.0	[m]	DC	STRAT
1930.0	[m]	DC	STRAT
1936.0	[m]	SWC	STRAT
1950.0	[m]	DC	STRAT
1960.0	[m]	DC	STRAT
1983.0	[m]	SWC	STRAT
1992.0	[m]	SWC	STRAT
2000.0	[m]	DC	STRAT
2004.0	[m]	SWC	STRAT
2040.0	[m]	SWC	STRAT
2050.0	[m]	DC	STRAT
2056.0	[m]	SWC	STRAT
2100.0	[m]	SWC	STRAT
2135.0	[m]	SWC	STRAT
2160.0	[m]	DC	STRAT
2177.0	[m]	SWC	STRAT
2190.0	[m]	DC	STRAT
2220.0	[m]	SWC	STRAT
2300.0	[m]	SWC	STRAT
2340.0	[m]	SWC	STRAT
2360.0	[m]	DC	STRAT
2380.0	[m]	DC	STRAT
2400.0	[m]	DC	STRAT

2420.0	[m]	SWC	STRAT
2430.0	[m]	DC	STRAT
2460.0	[m]	DC	STRAT
2480.0	[m]	DC	STRAT
2493.0	[m]	SWC	STRAT
2518.0	[m]	SWC	STRAT
2530.0	[m]	DC	STRAT
2550.0	[m]	DC	STRAT
2570.0	[m]	DC	STRAT
2580.0	[m]	DC	STRAT
2595.0	[m]	SWC	STRAT
2640.0	[m]	SWC	STRAT
2645.0	[m]	DC	STRAT
2655.0	[m]	DC	STRAT
2665.0	[m]	DC	STRAT
2680.0	[m]	DC	STRAT
2700.0	[m]	DC	STRAT
2730.0	[m]	SWC	STRAT
2790.0	[m]	SWC	STRAT
2835.0	[m]	SWC	STRAT
2844.0	[m]	SWC	STRAT
2850.0	[m]	C	STRAT
2850.1	[m]	C	OD
2853.5	[m]	C	STRAT
2853.6	[m]	C	OD
2854.9	[m]	C	STRAT
2855.0	[m]	C	STRAT
2856.4	[m]	C	STRAT
2859.8	[m]	C	STRAT
2860.5	[m]	C	OD
2860.6	[m]	C	STRAT
2860.9	[m]	C	OD
2862.4	[m]	C	STRAT
2864.7	[m]	C	STRAT
2865.7	[m]	C	STRAT
2868.7	[m]	C	STRAT
2868.7	[m]	C	OD
2872.5	[m]	C	STRAT
2872.6	[m]	C	OD
2876.7	[m]	C	STRAT

2878.7	[m]	C	STRAT
2878.7	[m]	C	OD
2880.4	[m]	C	OD
2880.4	[m]	C	STRAT
2882.4	[m]	C	OD
2884.4	[m]	C	STRAT
2884.5	[m]	C	OD
2885.9	[m]	C	STRAT
2886.7	[m]	C	OD
2888.0	[m]	C	STRAT
2888.1	[m]	C	STRAT
2888.2	[m]	C	STRAT
2888.3	[m]	C	OD
2890.8	[m]	C	STRAT
2900.0	[m]	DC	STRAT
2950.0	[m]	DC	STRAT
2970.0	[m]	DC	STRAT
2980.0	[m]	DC	STRAT
2990.0	[m]	SWC	STRAT
3030.0	[m]	SWC	STRAT
3060.0	[m]	DC	STRAT
3070.0	[m]	DC	STRAT
3080.0	[m]	DC	STRAT
3090.0	[m]	DC	STRAT
3100.0	[m]	DC	STRAT
3116.0	[m]	DC	STRAT
3120.0	[m]	DC	STRAT
3130.0	[m]	SWC	STRAT
3142.0	[m]	DC	STRAT
3170.0	[m]	DC	STRAT
3200.0	[m]	DC	STRAT
3230.0	[m]	DC	STRAT
3240.0	[m]	DC	STRAT
3250.0	[m]	DC	STRAT
3254.0	[m]	C	STRAT
3263.5	[m]	C	STRAT
3290.0	[m]	DC	STRAT
3310.0	[m]	DC	STRAT
3330.0	[m]	DC	STRAT
3340.0	[m]	DC	STRAT

3350.0	[m]	DC	STRAT
3360.0	[m]	DC	STRAT
3370.0	[m]	DC	STRAT
3375.0	[m]	DC	STRAT
3390.0	[m]	DC	STRAT
3400.0	[m]	DC	STRAT
3430.0	[m]	DC	STRAT
3460.0	[m]	DC	STRAT
3480.0	[m]	DC	STRAT
3490.0	[m]	DC	STRAT
3510.0	[m]	DC	STRAT
3530.0	[m]	DC	STRAT
3540.0	[m]	DC	STRAT
3550.0	[m]	DC	STRAT
3560.0	[m]	DC	STRAT
3570.0	[m]	DC	STRAT
3590.0	[m]	DC	STRAT
3600.0	[m]	DC	STRAT
3630.0	[m]	DC	STRAT
3650.0	[m]	DC	STRAT
3660.0	[m]	DC	STRAT
3690.0	[m]	DC	STRAT
3700.0	[m]	DC	STRAT
3710.0	[m]	DC	STRAT
3720.0	[m]	DC	STRAT
3730.0	[m]	DC	STRAT
3748.0	[m]	SWC	STRAT
3760.0	[m]	DC	STRAT
3770.0	[m]	DC	STRAT
3780.0	[m]	DC	STRAT
3785.0	[m]	DC	STRAT
3790.0	[m]	DC	STRAT
3810.0	[m]	DC	STRAT
3830.0	[m]	DC	STRAT
3835.0	[m]	DC	STRAT
3837.0	[m]	DC	STRAT
3840.0	[m]	SWC	STRAT
3845.0	[m]	DC	STRAT
3847.0	[m]	DC	STRAT
3860.0	[m]	DC	STRAT

3870.0	[m]	DC	STRAT
3880.0	[m]	DC	STRAT
3890.0	[m]	DC	STRAT
3900.0	[m]	DC	STRAT
3910.0	[m]	DC	STRAT
3916.0	[m]	SWC	STRAT
3920.0	[m]	DC	STRAT
3927.0	[m]	DC	STRAT
3928.0	[m]	SWC	STRAT
3940.0	[m]	DC	STRAT
3950.0	[m]	DC	STRAT
3960.0	[m]	DC	STRAT
3965.0	[m]	DC	STRAT
3972.0	[m]	DC	STRAT

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
378	NORDLAND GP
378	NAUST FM
1375	KAI FM
1835	HORDALAND GP
1835	BRYGGE FM
1948	ROGALAND GP
1948	TARE FM
2005	TANG FM
2052	SHETLAND GP
2052	SPRINGAR FM
2157	NISE FM
2453	KVITNOS FM
2850	CROMER KNOLL GP
2850	LYSING FM
2891	LANGE FM
3791	LYR FM
3843	VIKING GP
3843	SPEKK FM

Composite logs

Document name	Document format	Document size [MB]
2299	pdf	0.54

Geochemical information

Document name	Document format	Document size [MB]
2299_1	pdf	1.88
2299_2	pdf	1.93
2299_3	pdf	1.90
2299_4	pdf	1.88
2299_5	pdf	1.94
2299_6	pdf	1.95
2299_7	pdf	1.93
2299_8	pdf	1.74
2299_9	pdf	0.41

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

Document name	Document format	Document size [MB]
2299_6507_2_3_COMPLETION_REPORT_AND_LOG	pdf	16.22

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST GR	1482	2018
CST GR	2018	3030
CST GR	3668	3705
CST GR	3710	3967
DLL MSFL AS GR AMS	2002	3058
DLL MSFL DSI AMS SP	3047	3700
DLL MSFL DSI GR AMS	3322	3972
DLL MSFL LSS GR	1453	2009
FMS LDL CNL AMS GR	3047	3695
FMS LDL CNL AMS FMS	3170	3300
LDL CNL SHDT AMS GR	2002	3044

MWD RGD - GR RES	355	2016
MWD RGD - GR RES	2012	2947
MWD RGD - GR RES	3044	3970
RFT HP GR	2826	2948
RFT HP GR	3172	3281
VSP	1600	3690

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	462.0	36	462.0	0.00	LOT
SURF.COND.	18 5/8	1453.0	24	1465.0	1.69	LOT
INTERM.	13 3/8	2002.0	17 1/2	2016.0	1.67	LOT
INTERM.	9 5/8	3045.0	12 1/4	3060.0	1.92	LOT
OPEN HOLE		3972.0	8 1/2	3972.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
400	1.61	31.0	10.0	WATER BASED	05.05.1994
430	1.05			WATER BASED	16.03.1994
462	1.05			WATER BASED	16.03.1994
895	1.05			WATER BASED	17.03.1994
1413	1.03			WATER BASED	18.03.1994
1440	1.61	31.0	9.0	WATER BASED	03.05.1994
1465	1.05			WATER BASED	21.03.1994
1465	1.05			WATER BASED	21.03.1994
1465	1.05			WATER BASED	21.03.1994
1818	1.52	24.0	16.0	WATER BASED	25.03.1994
2016	1.61	37.0	26.0	WATER BASED	30.03.1994
2016	1.61	37.0	26.0	WATER BASED	30.03.1994
2016	1.61	26.0	24.0	WATER BASED	30.03.1994
2016	1.61	29.0	23.0	WATER BASED	30.03.1994
2296	1.41	24.0	23.5	WATER BASED	05.04.1994
2639	1.41	26.0	26.0	WATER BASED	05.04.1994
2680	1.41	24.0	24.0	WATER BASED	05.04.1994
2850	1.41	28.0	21.0	WATER BASED	05.04.1994

2878	1.42	27.0	22.0	WATER BASED	05.04.1994
2915	1.55	31.0	8.0	WATER BASED	02.05.1994
2915	1.55	31.0	8.5	WATER BASED	02.05.1994
2915	1.43	26.0	22.0	WATER BASED	05.04.1994
3060	1.43	26.0	19.5	WATER BASED	08.04.1994
3060	1.43	25.0	21.0	WATER BASED	05.04.1994
3060	1.43	27.0	20.0	WATER BASED	06.04.1994
3060	1.43	27.0	20.0	WATER BASED	08.04.1994
3060	1.43	26.0	19.0	WATER BASED	12.04.1994
3060	1.43	24.0	15.0	WATER BASED	12.04.1994
3060	1.43	21.0	12.0	WATER BASED	12.04.1994
3141	1.50	20.0	11.5	WATER BASED	12.04.1994
3254	1.59	20.0	12.0	WATER BASED	13.04.1994
3265	1.59	21.0	11.5	WATER BASED	14.04.1994
3320	1.59	25.0	13.0	WATER BASED	18.04.1994
3377	1.59	24.0	13.5	WATER BASED	19.04.1994
3377	1.59	25.0	13.0	WATER BASED	19.04.1994
3400	1.59	31.0	11.0	WATER BASED	19.04.1994
3538	1.59	39.0	13.5	WATER BASED	19.04.1994
3700	1.50	50.0	12.0	WATER BASED	28.04.1994
3700	1.50	31.0	9.0	WATER BASED	02.05.1994
3700	1.50	32.0	9.0	WATER BASED	29.04.1994
3726	1.59	34.0	12.0	WATER BASED	20.04.1994
3850	1.67	40.0	12.0	WATER BASED	21.04.1994
3936	1.80	48.0	13.0	WATER BASED	22.04.1994
3972	1.80	50.0	12.5	WATER BASED	25.04.1994
3972	1.80	50.0	12.5	WATER BASED	25.04.1994
3972	1.80	50.0	12.5	WATER BASED	26.04.1994
3972	1.80	48.0	12.0	WATER BASED	27.04.1994

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
3259.22	[m]
3260.25	[m]
2857.80	[m]
2872.33	[m]

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]
2299_Formation_pressure_(Formasjonstrykk)	pdf	0.28