

**General information**

Wellbore name	6507/8-6
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Well name	6507/8-6
Seismic location	ST 9102- INLINE 1518 & CROSSLINE 942
Production licence	124
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	770-L
Drilling facility	DEEPSEA BERGEN
Drilling days	42
Entered date	29.08.1993
Completed date	09.10.1993
Release date	09.10.1995
Publication date	13.12.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	23.0
Water depth [m]	356.0
Total depth (MD) [m RKB]	2850.0
Final vertical depth (TVD) [m RKB]	2850.0
Maximum inclination [°]	3.1
Bottom hole temperature [°C]	85
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	RED BEDS (INFORMAL)
Geodetic datum	ED50
NS degrees	65° 24' 35.96" N
EW degrees	7° 28' 52.74" E
NS UTM [m]	7255180.50
EW UTM [m]	429485.26
UTM zone	32
NPDID wellbore	2183

**Wellbore history****General**

Wildcat well 6507/8-6 was drilled on a structure ca 4.5 km NE of the Heidrun Nord 6507/8-4 Discovery well. The main objective was to test the potential for hydrocarbons in Middle and Early Jurassic sandstones in the Fangst and BÅt Groups.

Operations and results

Wildcat well was spudded with the semi-submersible installation Deepsea Bergen on 29 August 1993 and drilled to TD at 2850 m in the Triassic Red Beds. After setting the 13 3/8 casing shoe at 1605 m 213.5 hours rig time was spent due to problems with running the pack off assembly. The interval from seafloor to 1605 m was logged by MWD only. No other significant deviation from planned operations occurred. The well was drilled with seawater and hi-vis pills down to 685 m and with gypsum/PAC from 685 m to TD.

In addition to sandstones of Middle and Early Jurassic age also Melke sandstones of Late Jurassic age were encountered. The well was 100% water wet all through. Fluorescence but no cut was observed in two samples from 2073 (siltstone/limestone in base intra-Melke sandstone) and 2232 m (sandstone in Tilje Formation). One conventional core was cut in the interval 2054 m to 2072 m in the intra-Melke sandstone. Only 5.3 m (24.9%) was recovered. One segregated sample was taken at 2049.0 m in the intra-Melke sandstone. Both chambers contained water and mud filtrate.

The well was permanently abandoned on 9 October 1993 as a dry well.

Testing

No drill stem test was performed in the well.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
690.00	2850.00

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	2054.0	2059.3	[m]

Total core sample length [m]	5.3
Cores available for sampling?	YES

**Core photos**

2054-2058m



2058-2059m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1610.0	[m]	DC	GEOST
1630.0	[m]	DC	GEOST
1640.0	[m]	DC	GEOST
1660.0	[m]	DC	GEOST
1672.5	[m]	SWC	STATO
1689.9	[m]	SWC	STATO
1700.0	[m]	DC	GEOST
1718.1	[m]	SWC	STATO
1727.1	[m]	SWC	STATO
1735.1	[m]	SWC	STATO
1755.1	[m]	SWC	STATO
1775.6	[m]	SWC	STATO
1790.0	[m]	DC	GEOST
1797.6	[m]	SWC	STATO
1815.0	[m]	DC	GEOST
1829.6	[m]	SWC	STATO
1877.5	[m]	SWC	STATO
1910.0	[m]	SWC	STATO
1915.0	[m]	SWC	STATO
1917.7	[m]	SWC	STATO
1930.0	[m]	DC	GEOST
1936.0	[m]	SWC	STATO
1948.0	[m]	SWC	STATO
1957.0	[m]	SWC	STATO
1962.0	[m]	SWC	STATO
1967.5	[m]	SWC	STATO
1976.0	[m]	SWC	STATO



1985.0	[m]	DC	GEOST
1986.5	[m]	SWC	STATO
1995.0	[m]	SWC	STATO
2005.0	[m]	SWC	STATO
2019.0	[m]	SWC	STATO
2030.0	[m]	DC	GEOST
2031.5	[m]	SWC	STATO
2042.5	[m]	SWC	STATO
2054.0	[m]	DC	STATO
2054.3	[m]	C	RRI
2056.0	[m]	C	GEOST
2057.0	[m]	C	STATO
2057.5	[m]	C	RRI
2058.5	[m]	C	RRI
2058.7	[m]	C	STATO
2058.8	[m]	C	RRI
2059.0	[m]	C	GEOST
2064.0	[m]	SWC	GEOST
2069.0	[m]	SWC	STATO
2072.0	[m]	SWC	STATO
2074.0	[m]	SWC	STATO
2075.5	[m]	SWC	GEOST
2083.0	[m]	SWC	STATO
2085.0	[m]	SWC	GEOST
2089.0	[m]	SWC	GEOST
2090.0	[m]	DC	STATO
2092.0	[m]	SWC	STATO
2095.5	[m]	SWC	STATO
2102.5	[m]	SWC	STATO
2110.0	[m]	SWC	STATO
2112.0	[m]	DC	GEOST
2122.0	[m]	SWC	GEOST
2124.0	[m]	DC	GEOST
2126.5	[m]	SWC	GEOST
2139.5	[m]	SWC	STATO
2151.0	[m]	SWC	STATO
2154.0	[m]	DC	GEOST
2158.0	[m]	SWC	STATO
2172.0	[m]	DC	GEOST
2177.0	[m]	SWC	STATO



2190.0	[m]	DC	GEOST
2200.0	[m]	DC	GEOST
2207.0	[m]	SWC	STATO
2219.0	[m]	SWC	STATO
2235.0	[m]	DC	GEOST
2250.0	[m]	DC	GEOST
2256.0	[m]	SWC	STATO
2271.0	[m]	DC	GEOST
2286.0	[m]	DC	GEOST
2300.0	[m]	DC	GEOST
2316.0	[m]	SWC	STATO
2330.0	[m]	SWC	STATO
2346.0	[m]	DC	GEOST
2361.0	[m]	DC	GEOST
2373.0	[m]	DC	GEOST
2379.0	[m]	SWC	STATO
2391.0	[m]	DC	GEOST
2412.0	[m]	DC	GEOST
2427.0	[m]	DC	GEOST
2440.0	[m]	SWC	STATO
2457.0	[m]	DC	GEOST
2469.0	[m]	DC	GEOST
2484.0	[m]	DC	GEOST
2499.0	[m]	DC	GEOST
2514.0	[m]	DC	GEOST
2522.0	[m]	SWC	STATO
2534.0	[m]	SWC	STATO
2550.0	[m]	DC	GEOST
2565.0	[m]	DC	GEOST
2580.0	[m]	DC	GEOST
2590.0	[m]	SWC	STATO
2604.0	[m]	DC	GEOST
2619.0	[m]	DC	GEOST
2631.0	[m]	DC	GEOST
2649.0	[m]	DC	GEOST
2664.0	[m]	DC	GEOST
2679.0	[m]	DC	GEOST
2694.0	[m]	DC	GEOST
2709.0	[m]	DC	GEOST
2721.0	[m]	DC	GEOST



2742.0	[m]	DC	GEOST
2754.0	[m]	DC	GEOST
2769.0	[m]	DC	GEOST
2784.0	[m]	DC	GEOST
2802.0	[m]	DC	GEOST
2814.0	[m]	DC	GEOST
2829.0	[m]	DC	GEOST
2850.0	[m]	DC	GEOST

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
379	NORDLAND GP
379	NAUST FM
1417	KAI FM
1722	HORDALAND GP
1722	BRYGGE FM
1868	ROGALAND GP
1868	TARE FM
1957	SHETLAND GP
1974	VIKING GP
1974	SPEKK FM
2033	MELKE FM
2047	NO FORMAL NAME
2075	MELKE FM
2096	FANGST GP
2096	GARN FM
2120	NOT FM
2128	ILE FM
2147	BÅT GP
2147	ROR FM
2165	TILJE FM
2275	ÅRE FM
2656	GREY BEDS (INFORMAL)
2743	RED BEDS (INFORMAL)

Geochemical information





Document name	Document format	Document size [MB]
2183_1	pdf	5.51

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

Document name	Document format	Document size [MB]
2183_6507_8_6_COMPLETION_REPORT_AND_LOG	pdf	44.99

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBIL GR	2035	2808
CBL VDL GR	1512	1690
DIFL ACL ZDL GR	1605	1899
DIFL MAC GR	1850	2582
DIFL MAC GR	2582	2822
FMT QDYNE GR	2049	2612
HXDIP GR	1902	2814
MWD - DIR	450	685
MWD - GR RES DIR	685	2850
VELOCITY	500	2810
ZDL CNL GR	1902	2827

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	441.0	36	441.0	0.00	LOT
INTERM.	20	673.0	26	673.0	1.38	LOT
INTERM.	13 3/8	1605.0	17 1/2	1605.0	1.72	LOT
INTERM.	9 5/8	1902.0	12 1/4	1902.0	1.76	LOT
OPEN HOLE		2850.0	8 1/2	2850.0	0.00	LOT

Drilling mud





Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
565	1.03			DUMMY	01.09.1993
685	1.20			DUMMY	03.09.1993
685	1.03			DUMMY	06.09.1993
685	1.03			DUMMY	06.09.1993
685	1.03			DUMMY	02.09.1993
1076	1.30	19.0	4.0	WATER BASED	06.09.1993
1468	1.30	19.0	6.5	WATER BASED	07.09.1993
1620	1.30	22.0	6.5	WATER BASED	09.09.1993
1620	1.30	18.0	5.0	WATER BASED	09.09.1993
1620	1.30	18.0	5.0	WATER BASED	13.09.1993
1620	1.30	18.0	5.0	WATER BASED	13.09.1993
1620	1.30	16.0	4.0	WATER BASED	13.09.1993
1620	1.30	19.0	5.5	WATER BASED	13.09.1993
1620	1.30	19.0	6.0	WATER BASED	15.09.1993
1620	1.30	20.0	5.5	WATER BASED	17.09.1993
1620	1.30	20.0	7.0	WATER BASED	17.09.1993
1620	1.30	22.0	7.0	WATER BASED	20.09.1993
1620	1.30	19.0	5.5	WATER BASED	20.09.1993
1760	1.40	23.0	7.0	WATER BASED	20.09.1993
1815	1.40	23.0	7.0	WATER BASED	20.09.1993
1840	1.40	24.0	6.0	WATER BASED	22.09.1993
1840	1.45	25.0	6.0	WATER BASED	22.09.1993
1919	1.40	24.0	6.0	WATER BASED	22.09.1993
2054	1.20	22.0	6.5	WATER BASED	28.09.1993
2072	1.20	21.0	6.5	WATER BASED	28.09.1993
2305	1.20	22.0	7.0	WATER BASED	28.09.1993
2484	1.20	21.0	5.5	WATER BASED	28.09.1993
2768	1.20	22.0	5.0	WATER BASED	30.09.1993
2850	1.20	21.0	4.5	WATER BASED	01.10.1993
2850	1.20	21.0	4.5	WATER BASED	04.10.1993
2850	1.20	21.0	4.5	WATER BASED	04.10.1993
2850	1.20	23.0	5.5	WATER BASED	30.09.1993
2850	1.20	21.0	4.5	WATER BASED	04.10.1993

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]
2183 Formation pressure (Formasjonstrykk)	pdf	0.28

