

**General information**

Wellbore name	6609/6-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Well name	6609/6-1
Seismic location	inline NLG-SKO2-crossline NLG SKO2-4047
Production licence	286
Drilling operator	Norsk Hydro Petroleum AS
Drill permit	1156-L
Drilling facility	POLAR PIONEER
Drilling days	52
Entered date	17.09.2007
Completed date	07.11.2007
Release date	07.11.2009
Publication date	07.11.2009
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	23.0
Water depth [m]	330.0
Total depth (MD) [m RKB]	2710.0
Final vertical depth (TVD) [m RKB]	2709.0
Maximum inclination [°]	6.7
Bottom hole temperature [°C]	92
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	RED BEDS (INFORMAL)
Geodetic datum	ED50
NS degrees	66° 41' 59.67" N
EW degrees	9° 56' 1.23" E
NS UTM [m]	7398424.83
EW UTM [m]	541212.60
UTM zone	32
NPDID wellbore	5626

**Wellbore history****General**

Well 6609/6-1 is located on the Grønøy High between the Træna Basin in the north and the Helgeland Basin in the south. The primary target was to test the hydrocarbon potential in the Snøhetta A1 structure with reservoir in the Late Cretaceous Lysing Formation. Secondary target was the Eocene Flantorsk Brygge AVO anomaly.

Operations and results

Well 6609/6-1 was spudded with the semi-submersible installation Polar Pioneer on 17 September 2007 and drilled to TD at 2710 m in the Late Triassic Red Beds. No significant problem was encountered in the operations. The well was drilled with seawater down to 1114 m, and with polymer mud from 1114 m to TD.

The Flantorsk proved to contain only traces of sand with no hydrocarbon shows. The main objective in the Lysing Formation proved only minor, water bearing sands with no hydrocarbon shows. Both the Flantorsk lead and the main objective in the Lysing Formation were logged on wire line. Sandstones with reservoir quality were also encountered in the Triassic interval (2644 m to TD). The CPI indicated some possible residual HC-saturation in the best sands in the Triassic, but this was interpreted more likely to be a result of inaccuracies in the applied formation factor. No shows were observed in the well.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 7 November 2007 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1010.00	2710.00

Cuttings available for sampling?	YES
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Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1010.0	[m]	DC	P-PARLOU
1030.0	[m]	DC	P-PARL
1050.0	[m]	DC	P-PARL
1070.0	[m]	DC	P-PARL
1090.0	[m]	DC	P-PARL



1110.0	[m]	DC	P-PARL
1130.0	[m]	DC	P-PARL
1150.0	[m]	DC	P-PARL
1170.0	[m]	DC	P-PARL
1190.0	[m]	DC	P-PARL
1210.0	[m]	DC	P-PARL
1230.0	[m]	DC	P-PARL
1250.0	[m]	DC	P-PARL
1270.0	[m]	DC	P-PARL
1290.0	[m]	DC	P-PARL
1310.0	[m]	DC	P-PARL
1330.0	[m]	DC	P-PARL
1340.0	[m]	DC	P-PARL
1350.0	[m]	DC	P-PARL
1357.0	[m]	DC	P-PARL
1360.0	[m]	DC	P-PARL
1363.0	[m]	DC	P-PARL
1366.0	[m]	DC	P-PARL
1369.0	[m]	DC	P-PARL
1372.0	[m]	DC	P-PARL
1375.0	[m]	DC	P-PARL
1378.0	[m]	DC	P-PARL
1384.0	[m]	DC	P-PARL
1390.0	[m]	DC	P-PARL
1410.0	[m]	DC	P-PARL
1430.0	[m]	DC	P-PARL
1460.0	[m]	DC	P-PARL
1480.0	[m]	DC	P-PARL
1500.0	[m]	DC	P-PARL
1520.0	[m]	DC	P-PARL
1540.0	[m]	DC	P-PARL
1560.0	[m]	DC	P-PARL
1580.0	[m]	DC	P-PARL
1600.0	[m]	DC	P-PARL
1620.0	[m]	DC	P-PARL
1640.0	[m]	DC	P-PARL
1660.0	[m]	DC	P-PARL
1700.0	[m]	DC	P-PARL
1720.0	[m]	DC	P-PARL
1740.0	[m]	DC	P-PARL



1760.0	[m]	DC	P-PARL
1780.0	[m]	DC	P-PARL
1800.0	[m]	DC	P-PARL
1820.0	[m]	DC	P-PARL
1840.0	[m]	DC	P-PARL
1860.0	[m]	DC	P-PARL
1880.0	[m]	DC	P-PARL
1900.0	[m]	DC	P-PARL
1920.0	[m]	DC	P-PARL
1940.0	[m]	DC	P-PARL
1960.0	[m]	DC	P-PARL
1980.0	[m]	DC	P-PARL
2000.0	[m]	DC	P-PARL
2020.0	[m]	DC	P-PARL
2040.0	[m]	DC	P-PARL
2060.0	[m]	DC	P-PARL
2080.0	[m]	DC	P-PARL
2100.0	[m]	DC	P-PARL
2120.0	[m]	DC	P-PARL
2140.0	[m]	DC	P-PARL
2160.0	[m]	DC	P-PARL
2180.0	[m]	DC	P-PARL
2200.0	[m]	DC	P-PARL
2220.0	[m]	DC	P-PARL
2230.0	[m]	SWC	P-PARL
2244.0	[m]	DC	P-PARL
2259.0	[m]	DC	P-PARL
2272.0	[m]	SWC	P-PARL
2292.0	[m]	DC	P-PARL
2300.0	[m]	SWC	P-PARL
2319.0	[m]	DC	P-PARL
2330.0	[m]	SWC	P-PARL
2349.0	[m]	DC	P-PARL
2355.0	[m]	DC	P-PARL
2360.0	[m]	SWC	P-PARL
2367.0	[m]	DC	P-PARL
2373.0	[m]	DC	P-PARL
2380.0	[m]	SWC	P-PARL
2385.0	[m]	DC	P-PARL
2391.0	[m]	DC	P-PARL



2397.0	[m]	DC	P-PARL
2404.0	[m]	SWC	P-PARL
2409.0	[m]	DC	P-PARL
2415.0	[m]	DC	P-PARL
2421.0	[m]	DC	P-PARL
2427.0	[m]	DC	P-PARL
2433.0	[m]	DC	P-PARL
2439.0	[m]	DC	P-PARL
2445.0	[m]	SWC	P-PARL
2455.0	[m]	SWC	P-PARL
2460.0	[m]	DC	P-PARL
2466.0	[m]	DC	P-PARL
2478.0	[m]	DC	P-PARL
2484.0	[m]	DC	P-PARL
2490.0	[m]	DC	P-PARL
2496.0	[m]	DC	P-PARL
2502.0	[m]	DC	P-PARL
2508.0	[m]	DC	P-PARL
2514.0	[m]	DC	P-PARL
2520.0	[m]	DC	P-PARL
2526.0	[m]	DC	P-PARL
2532.0	[m]	DC	P-PARL
2538.0	[m]	DC	P-PARL
2544.0	[m]	DC	P-PARL
2550.0	[m]	DC	P-PARL
2556.0	[m]	SWC	P-PARL
2562.0	[m]	DC	P-PARL
2568.0	[m]	DC	P-PARL
2574.0	[m]	DC	P-PARL
2576.0	[m]	SWC	P-PARL
2580.0	[m]	DC	P-PARL
2585.0	[m]	SWC	P-PARL
2592.0	[m]	DC	P-PARL
2598.0	[m]	DC	P-PARL
2604.0	[m]	DC	P-PARL
2610.0	[m]	DC	P-PARL
2616.0	[m]	DC	P-PARL
2622.0	[m]	DC	P-PARL
2628.0	[m]	DC	P-PARL
2635.0	[m]	SWC	P-PARL



2640.0	[m]	DC	P-PARL
2645.0	[m]	SWC	P-PARL
2652.0	[m]	DC	P-PARL
2655.0	[m]	SWC	P-PARL
2660.0	[m]	SWC	P-PARL
2667.0	[m]	DC	P-PARL
2673.0	[m]	DC	P-PARL
2679.0	[m]	DC	P-PARL
2685.0	[m]	DC	P-PARL
2694.0	[m]	DC	P-PARL
2700.0	[m]	DC	P-PARL
2706.0	[m]	DC	P-PARL
2710.0	[m]	DC	P-PARL

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
353	NORDLAND GP
353	NAUST FM
1171	KAI FM
1239	HORDALAND GP
1239	BRYGGE FM
1397	ROGALAND GP
1397	TARE FM
1608	TANG FM
1750	SHETLAND GP
1750	SPRINGAR FM
1935	NISE FM
2138	KVITNOS FM
2385	NO FORMAL NAME
2403	KVITNOS FM
2463	CROMER KNOLL GP
2463	LYSING FM
2492	LANGE FM
2644	RED BEDS (INFORMAL)

Logs



Log type	Log top depth [m]	Log bottom depth [m]
FMI GR	2221	2705
GR RES DIR RAB-GEOVISION	431	2710
MSCT GR	2230	2705
MWD - DIR	354	435
MWD - DIR	431	1005
MWD - GR RES SON DIR	354	1005
PEX HRLA ECS DSI	461	1442
PEX HRLA ECS DSI XPT	2221	2705
VSP	1400	2690

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	430.0	36	431.0	0.00	LOT
SURF.COND.	20	998.0	26	1005.0	1.32	LOT
INTERM.	13 3/8	1445.0	17 1/2	1451.0	1.69	LOT
INTERM.	9 5/8	2213.0	12 1/4	2221.0	1.77	LOT
OPEN HOLE		2710.0	8 1/2	2710.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
0	1.32	15.0		WATER BASED	
0	1.27	18.0		WATER BASED	
1114	1.27	18.0		WATER BASED	