

**General information**

Wellbore name	25/9-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	25/9-1
Seismic location	UHP92-50 & SP 1684 / SG 8603-307 & SP 14
Production licence	189
Drilling operator	Amerada Hess Norge AS
Drill permit	810-L
Drilling facility	VILDKAT EXPLORER
Drilling days	25
Entered date	28.03.1995
Completed date	22.04.1995
Release date	22.04.1997
Publication date	29.08.2003
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	111.0
Total depth (MD) [m RKB]	2525.0
Final vertical depth (TVD) [m RKB]	2525.0
Maximum inclination [°]	1.5
Bottom hole temperature [°C]	91
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SMITH BANK FM
Geodetic datum	ED50
NS degrees	59° 26' 58.72" N
EW degrees	2° 42' 35.67" E
NS UTM [m]	6590310.69
EW UTM [m]	483550.58
UTM zone	31
NPDID wellbore	2476



Wellbore history

General

Well 25/9-1 is located East of the Jotun area and Southwest of the small 25/6-1 Discovery. Well 25/9-1 was drilled to test the hydrocarbon potential of Middle Jurassic Hugin Formation sandstones (Rummel prospect) with sandstones of the Lower Palaeocene Ty Formation as a secondary target.

Operations and results

Wildcat well 25/9-1 was spudded with the semi-submersible "Vildkat Explorer" 28 March 1995 and drilled to a total depth of 2525 m as prognosed, 110.5 m into sediments of the Late Triassic Smith Bank Formation. The well was drilled with bentonite / sea water down to 1056 m and with "Anco 2000" mud with ca 3% "Anco 208" glycols from 1056 m to TD.

No shallow gas or boulder beds were encountered in the uppermost well section. The well penetrated mainly clays and claystones in the Nordland, Hordaland and Rogaland groups. A clean Quaternary sandstone was seen between 275 and 319 m. The Utsira (754.5 m - 1000 m) and Skade (1284.5 m -1344.5 m) Formation sandstones were also present. Top Våle Formation was reached at 2030.5 m but no Ty Formation sands were present and the lithology consisted mainly of limestones and chalk, which continued down to top Shetland Group at 2043.5 m. The Shetland Group consisted mainly of chalk with the Cromer Knoll Group consisting of limestones interbedded with clay stones and marls. The Hugin Formation sandstones came in as prognosed at 2184.5 m and were found to be water bearing. One 11.5 metre core was cut. The core showed excellent reservoir parameters.

No hydrocarbons were found in the Våle Formation. Weak shows were seen in drilled cuttings from two intervals; the Lista Formation from 1951 m to 2017 m and in the Draupne and Heather formations from 2167 to 2184.5 m and in a number of sidewall cores recovered from wire line log run 2F, interval 1988 m to 2413 m. Post well organic geochemical analysis confirmed traces of migrated hydrocarbons present in the interval 2180 m - 2183 m (Heather Formation). Except from the above mentioned shows, MWD and wire line log responses did not indicate any presence of hydrocarbons throughout the well. No fluid samples were taken in the well. The well was permanently abandoned as dry well 22 April 1995.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1060.00	2525.00

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	2183.0	2194.5	[m]

Total core sample length [m]	11.5
Cores available for sampling?	YES

Core photos


2183-2188m



2188-2193m



2193-2195m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1272.0	[m]	SWC	RRI
1366.5	[m]	SWC	RRI
1435.0	[m]	SWC	RRI
1665.0	[m]	SWC	RRI
1743.1	[m]	SWC	RRI
1760.0	[m]	DC	RRI
1770.0	[m]	DC	RRI
1785.5	[m]	SWC	RRI
1799.0	[m]	SWC	RRI
1810.0	[m]	DC	RRI
1818.5	[m]	SWC	RRI
1824.5	[m]	SWC	RRI
1829.8	[m]	SWC	RRI
1835.0	[m]	SWC	RRI
1840.0	[m]	DC	RRI
1850.5	[m]	SWC	RRI
1860.0	[m]	DC	RRI



1870.0 [m]	DC	RRI
1880.0 [m]	DC	RRI
1882.0 [m]	SWC	RRI
1892.5 [m]	SWC	RRI
1899.8 [m]	SWC	RRI
1900.0 [m]	DC	RRI
1910.0 [m]	SWC	RRI
1915.5 [m]	SWC	RRI
1923.2 [m]	SWC	RRI
1939.0 [m]	SWC	RRI
1942.9 [m]	SWC	RRI
1950.0 [m]	DC	RRI
1960.0 [m]	DC	RRI
1970.0 [m]	DC	RRI
1988.0 [m]	SWC	RRI
2001.0 [m]	DC	RRI
2013.5 [m]	SWC	RRI
2015.5 [m]	SWC	RRI
2019.0 [m]	DC	RRI
2030.0 [m]	SWC	RRI
2039.0 [m]	SWC	RRI
2041.0 [m]	SWC	RRI
2043.0 [m]	DC	RRI
2044.0 [m]	SWC	RRI
2055.0 [m]	DC	RRI
2070.0 [m]	DC	RRI
2074.5 [m]	SWC	RRI
2079.5 [m]	SWC	RRI
2100.0 [m]	DC	RRI
2109.0 [m]	DC	RRI
2114.0 [m]	SWC	RRI
2118.0 [m]	DC	RRI
2130.0 [m]	DC	RRI
2145.0 [m]	DC	RRI
2154.0 [m]	DC	RRI
2157.0 [m]	DC	RRI
2160.0 [m]	DC	RRI
2163.0 [m]	DC	RRI
2165.5 [m]	SWC	RRI
2168.0 [m]	SWC	RRI



2174.5 [m]	SWC	RRI
2177.0 [m]	SWC	RRI
2181.0 [m]	SWC	RRI
2183.0 [m]	C	RRI
2185.5 [m]	SWC	RRI
2187.2 [m]	C	RRI
2189.3 [m]	C	RRI
2190.0 [m]	SWC	RRI
2192.8 [m]	C	RRI
2193.5 [m]	C	RRI
2194.5 [m]	C	RRI
2212.5 [m]	SWC	RRI
2226.0 [m]	DC	RRI
2241.0 [m]	DC	RRI
2268.0 [m]	DC	RRI
2283.0 [m]	DC	RRI
2286.8 [m]	SWC	RRI
2299.5 [m]	SWC	RRI
2302.0 [m]	SWC	RRI
2322.0 [m]	DC	RRI
2332.0 [m]	SWC	RRI
2343.0 [m]	SWC	RRI
2355.0 [m]	DC	RRI
2361.5 [m]	SWC	RRI
2367.0 [m]	DC	RRI
2389.5 [m]	SWC	RRI
2400.0 [m]	DC	RRI
2413.0 [m]	SWC	RRI
2433.5 [m]	SWC	RRI
2445.0 [m]	DC	RRI
2460.0 [m]	DC	RRI
2478.5 [m]	SWC	RRI
2494.0 [m]	SWC	RRI
2505.0 [m]	DC	RRI
2522.0 [m]	DC	RRI

Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
136	NORDLAND GP
680	UTSIRA FM
1000	HORDALAND GP
1285	SKADE FM
1344	NO FORMAL NAME
1832	ROGALAND GP
1832	BALDER FM
1893	SELE FM
1928	LISTA FM
2031	VÅLE FM
2044	SHETLAND GP
2044	TOR FM
2047	TRYGGVASON FM
2050	SVARTE FM
2118	CROMER KNOLL GP
2118	RØDBY FM
2161	ÅSGARD FM
2167	VIKING GP
2167	DRAUPNE FM
2175	HEATHER FM
2185	VESTLAND GP
2185	HUGIN FM
2202	DUNLIN GP
2202	AMUNDSEN FM
2301	STATFJORD GP
2415	NO GROUP DEFINED
2415	SMITH BANK FM

Composite logs

Document name	Document format	Document size [MB]
2476	pdf	0.29

Geochemical information





Document name	Document format	Document size [MB]
2476_1	pdf	1.63
2476_2	pdf	1.19

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

Document name	Document format	Document size [MB]
2476_25_9_1_COMPLETION_REPORT_AND_LOG	pdf	38.46

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CAL CN GR	2300	2523
FMT GR QUARTZDYNE	2188	2474
HEXDIP GR	1966	2517
MLL DLL AC GR SP CAL	1966	2523
MLL DLL AC SL SP CAL	1044	1952
MLL DLL SL SP CAL	1044	1946
MWD - DIR FE	136	400
MWD - DIR FE	1015	1970
MWD - DIR FE	1972	2184
MWD - DIR FE	2194	2525
SWC GR	1272	1945
SWC GR	1981	2521
VSP	1160	2470
ZDL CN SL	1966	2523

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	208.0	36	208.0	0.00	LOT
SURF.COND.	13 3/8	1043.0	17 1/2	1044.0	0.00	LOT
INTERM.	9 5/8	1960.0	12 1/4	1960.0	0.00	LOT
OPEN HOLE		2525.0	8 1/2	2525.0	0.00	LOT



**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
208	1.08	100.0		WATER BASED	
323	1.05	100.0		WATER BASED	
434	1.08	100.0		WATER BASED	
1004	1.08	100.0		WATER BASED	
1056	1.27	22.0		WATER BASED	
1705	1.27	21.0		WATER BASED	
1850	1.28	16.0		WATER BASED	
1970	1.27	29.0		WATER BASED	
2082	1.27	19.0		WATER BASED	
2183	1.27	27.0		WATER BASED	
2304	1.27	20.0		WATER BASED	
2525	1.27	20.0		WATER BASED	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
2193.50	[m]
2194.20	[m]
2183.50	[m]
2193.00	[m]
2183.25	[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]
2476 Formation pressure (Formasjonstrykk)	pdf	0.22

