General information

Wellbore name	8/11-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	8/11-1
Seismic location	LINE PG 8/11-1 SP.145
Production licence	017
Drilling operator	Phillips Petroleum Company Norway
Drill permit	126-L
Drilling facility	OCEAN VIKING
Drilling days	67
Entered date	24.04.1975
Completed date	29.06.1975
Release date	29.06.1977
Publication date	24.09.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	27.0
Water depth [m]	64.0
Total depth (MD) [m RKB]	3810.0
Maximum inclination [°]	4.5
Bottom hole temperature [°C]	107
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SMITH BANK FM
Geodetic datum	ED50
NS degrees	57° 6' 32'' N
EW degrees	3° 38' 25'' E
NS UTM [m]	6329831.02
EW UTM [m]	538783.43
UTM zone	31
NPDID wellbore	304

Wellbore history

General

Well 8/11-1 is located on the Sørvestlandet High towards the Åsta Graben. It was drilled on a crestal position of an elongated faulted anticline approximately 11 km long and 5 km wide. The primary objective horizon was the Jurassic Sandstone section, which from seismic information was expected to have closure of 39 km2 with a maximum of 66 m of vertical closure. Late Cretaceous limestone, Paleocene sandstone and Triassic Sandstone were secondary objectives.

Operations and results

Wildcat well 8/11-1 was spudded with the semi-submersible installation Ocean Viking on 24 April 1975 and drilled to TD at 3810 m in the Triassic Red beds. The well was drilled with seawater and Attapulgite clay down to 458 m, with seawater/Drispac and 3% diesel oil from 458 m to 1219 m, and with seawater/Drispac/lime/4-5% diesel oil from 1219 m to TD.

The formation tops and thicknesses agreed well with the geological prognosis with Paleocene coming in at 1968 m, top Cretaceous at 2143 m, the Jurassic at 2807 m, and top Triassic in the interval 2855 m to 2900 m. In the Paleocene, no sands were developed and in the Upper Cretaceous the limestone was tight. The Jurassic section consisted of 27.4 m of dark grey shale of Portlandian - Late Kimmeridgian age. The total sand section had been eroded away by the Kimmeridgian unconformity. After drilling 975 m of barren Triassic section the well was terminated at the prognosed depth of 3810 m without the Zechstein salt having been encountered. The well had no shows and thus no testing was carried out. No conventional core was cut and no fluid sample taken.

The well was permanently abandoned on 29 June 1975 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]
457.20	3810.00

Cuttings available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
5940.0	[ft]	DC	RRI
6000.0	[ft]	DC	RRI
6060.0	[ft]	DC	RRI
6120.0	[ft]	DC	RRI
6180.0	[ft]	DC	RRI
6210.0	[ft]	DC	RRI

6240.0	[ft]	DC	RRI
6270.0	[ft]	DC	RRI
6330.0	[ft]	DC	RRI
6390.0	[ft]	DC	RRI
6420.0	[ft]	DC	RRI
6450.0	[ft]	DC	RRI
6510.0	[ft]	DC	RRI
6570.0	[ft]	DC	RRI
6630.0	[ft]	DC	RRI
6690.0	[ft]	DC	RRI
6750.0	[ft]	DC	RRI
6780.0	[ft]	DC	RRI
6810.0	[ft]	DC	RRI
6870.0	[ft]	DC	RRI
6930.0	[ft]	DC	RRI
6990.0	[ft]	DC	RRI
7050.0	[ft]	DC	RRI
9180.0	[ft]	DC	GEUS
9180.0	[ft]	DC	PETROSTR
9210.0	[ft]	DC	PETROS
9210.0	[ft]	DC	GEUS
9270.0	[ft]	DC	GEUS
9270.0	[ft]	DC	PETROSTR
9330.0	[ft]	DC	PETROS
9360.0	[ft]	DC	PETROS
9390.0	[ft]	DC	PETROS
9420.0	[ft]	DC	PETROS
9630.0	[ft]	DC	GEUS
9660.0	[ft]	DC	GEUS
9690.0	[ft]	DC	GEUS
9720.0	[ft]	DC	GEUS
9750.0	[ft]	DC	GEUS
10080.0	[ft]	DC	GEUS
10440.0	[ft]	DC	GEUS

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
91	NORDLAND GP

1038	HORDALAND GP
1968	ROGALAND GP
1968	BALDER FM
1979	SELE FM
2059	LISTA FM
2088	VÅLE FM
2116	SHETLAND GP
2116	EKOFISK FM
2143	TOR FM
2408	HOD FM
2509	BLODØKS FM
2512	HIDRA FM
2528	CROMER KNOLL GP
2528	RØDBY FM
2574	SOLA FM
2658	ÅSGARD FM
2807	BOKNFJORD GP
2807	FLEKKEFJORD FM
2835	VESTLAND GP
2835	SANDNES FM
2871	NO GROUP DEFINED
2871	SKAGERRAK FM
3182	SMITH BANK FM

Composite logs

Document name	Document format	Document size [MB]
304	pdf	0.27

Geochemical information

Document name	Document format	Document size [MB]
304_1_Visual_maturity_of_selected_cuttingsin_8_11_1	pdf	4.89

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

Document name	Document format	Document size [MB]
304_01_WDSS_General_Information	pdf	0.22

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

Document name	Document format	Document size [MB]
304_1_Completion_Report_and_Completion_log	pdf	6.69

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHCS	1139	3800
GR	1139	3800
IES	1139	3800
SP	1139	3800

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	126.0	36	130.0	0.00	LOT
SURF.COND.	20	457.0	26	460.0	0.00	LOT
INTERM.	13 3/8	1219.0	17 1/2	1220.0	0.00	LOT
INTERM.	9 5/8	2865.0	12 1/4	2865.0	0.00	LOT
LINER	7	3810.0	8 1/2	3810.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
126	1.05			seawater	
457	1.25			seawater	
1219	1.31	45.0		seawater	
1524	1.37	50.0		seawater	

2133	1.43	55.0		seawater	
2865	1.61	55.0		seawater	
3810	1.67	50.0		seawater	