General information

Wellbore name	25/11-10
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	BALDER
Discovery	25/11-1 Balder
Well name	25/11-10
Seismic location	BALMG 220 SP: 168.
Production licence	001
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	274-L
Drilling facility	GLOMAR BISCAY II
Drilling days	29
Entered date	20.01.1981
Completed date	17.02.1981
Release date	17.02.1983
Publication date	17.06.2011
Purpose - planned	APPRAISAL
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	124.0
Total depth (MD) [m RKB]	1988.0
Final vertical depth (TVD) [m RKB]	1988.0
Bottom hole temperature [°C]	55
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	59° 10' 8.74'' N
EW degrees	2° 20' 58'' E
NS UTM [m]	6559213.92
EW UTM [m]	462806.02
UTM zone	31
NPDID wellbore	370

Wellbore history

General

Well 25/11-10 was drilled to appraise the Balder Field on the Utsira High in the North Sea. The objective was to establish the presence of a thick accumulation of oil sand in the southern part of the Balder Field, and evaluate the geologic concept of sand-shale distribution and the reservoir quality of the Paleocene sands.

Operations and results

Appraisal well 25/11-10 was spudded with the semi-submersible installation Glomar Biscay II on 20 January 1981 on and drilled to TD at 1988 m (1985 m logger's depth) in the Danian age chalk of the Ekofisk Formation. The well was drilled with seawater/gel/Lignosulphonate mud.

The Paleocene Heimdal Formation reservoir sands anticipated to be present in this well were found at 1786 m, significantly deeper than prognosed and below the field oil-water contact. Gross thickness of the sands was 128.2 m with an average porosity of 31.4%. They were water wet. The sands were found similar to those found in 25/11-7 to the north. Only thin stringers (2.5 m totally) with shows between 1757 m and 1785 m were found in the Sele and Lista formations.

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

The well was permanently abandoned on 17 February 1981 as a dry well with shows.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
220.00	1980.00

Cuttings available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1654.0	[m]	SWC	
1657.0	[m]	SWC	
1660.5	[m]	SWC	
1669.0	[m]	SWC	
1674.0	[m]	SWC	
1679.0	[m]	SWC	

1684.0	[m]	SWC	
1689.0	[m]	SWC	
1694.0	[m]	SWC	
1702.0	[m]	SWC	
1706.5	[m]	SWC	
1712.0	[m]	SWC	
1715.0	[m]	SWC	
1720.0	[m]	SWC	
1724.0	[m]	SWC	
1728.0	[m]	SWC	
1735.5	[m]	SWC	
1740.0	[m]	SWC	
1745.0	[m]	SWC	
1750.5	[m]	SWC	
1757.0	[m]	SWC	
1760.0	[m]	SWC	
1766.0	[m]	SWC	
1772.0	[m]	SWC	
1773.0	[m]	SWC	
1773.5	[m]	SWC	
1775.0	[m]	SWC	
1779.0	[m]	SWC	
1785.0	[m]	SWC	
1820.0	[m]	DC	
1840.0	[m]	DC	
1860.0	[m]	DC	
1880.0	[m]	DC	
1900.0	[m]	DC	
1916.0	[m]	SWC	
1924.5	[m]	SWC	
1931.5	[m]	SWC	
1934.5	[m]	SWC	
1942.5	[m]	SWC	
1953.0	[m]	SWC	
1960.0	[m]	SWC	
1980.0	[m]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
149	NORDLAND GP
601	UTSIRA FM
754	NO FORMAL NAME
778	HORDALAND GP
778	SKADE FM
1004	NO FORMAL NAME
1025	SKADE FM
1062	NO FORMAL NAME
1159	SKADE FM
1223	NO FORMAL NAME
1260	SKADE FM
1270	NO FORMAL NAME
1682	ROGALAND GP
1682	BALDER FM
1725	SELE FM
1743	LISTA FM
1786	HEIMDAL FM
1930	LISTA FM
1943	HEIMDAL FM
1958	VÅLE FM
1968	SHETLAND GP
1968	EKOFISK FM

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

Document name	Document format	Document size [MB]
370_01_WDSS_General_Information	pdf	0.09
370_02_WDSS_completion_log	pdf	0.15

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

Document name	Document format	Document size [MB]
370_25_11_10_Completion_Log	pdf	1.29
370_25_11_10_Completion_Report	pdf	9.03

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DEN NEU GR	1210	1984
DIPLOG	1215	1985
IEL BHC AC GR SP	139	1983
SWC	1298	1970
VELOCITY LOG	139	1975

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	211.0	36	212.0	0.00	LOT
INTERM.	13 3/8	470.0	17 1/2	485.0	1.63	LOT
INTERM.	9 5/8	1210.0	12 1/4	1225.0	1.77	LOT
OPEN HOLE		1988.0	8 1/2	1988.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
310	1.06	29.0		waterbased	
640	1.09	33.0		waterbased	
1210	1.15	44.0		waterbased	
1400	1.16	47.0		waterbased	
1870	1.19	52.0		waterbased	