



General information





Wellbore name	25/11-12
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	25/11-12
Seismic location	BALMG 173 SP: 240.
Production licence	001
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	281-L
Drilling facility	GLOMAR BISCAY II
Drilling days	20
Entered date	18.04.1981
Completed date	07.05.1981
Release date	07.05.1983
Publication date	17.06.2011
Purpose - planned	APPRAISAL
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	127.0
Total depth (MD) [m RKB]	1918.0
Final vertical depth (TVD) [m RKB]	1918.0
Maximum inclination [°]	1.4
Bottom hole temperature [°C]	60
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	59° 12' 2.61" N
EW degrees	2° 22' 51.74" E
NS UTM [m]	6562718.97
EW UTM [m]	464645.01
UTM zone	31
NPDID wellbore	372



Wellbore history

General

Well 25/11-12 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 north-eastern part of the Balder Field, and evaluate the geologic concept of sand-shale distribution and the reservoir quality of the Paleocene sands. The top of the reservoir was anticipated to be at 1717 m TVD MSL.

Operations and results

Appraisal well 25/11-12 was spudded with the semi-submersible installation Glomar Biscay II on 18 April 1981 on and drilled to TD at 1918 m in the Danian age chalk of the Ekofisk Formation. The well was drilled with seawater/gel/Lignosulphonate mud.

The Sele Formation had thin stringers of sand with oil shows, but no significant Paleocene sands were developed above the Heimdal Formation in this well. Massive Paleocene Heimdal Formation sands were encountered at 1784.5 m (1759.5 m TVD MSL) and 1860 m (1835 m TVD MSL). The upper sand is 65 m thick and had oil shows evident by sidewall cores at 1785 m and 1786 m. The lower sand is 20 m thick and was entirely water-bearing with no shows. The Balder Field oil/water contact is generally thought to be at 1785 m (1760 m).

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

The well was permanently abandoned on 7 May 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]
230.00	1914.00

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

Sample depth	Depth unit	Sample type	Laboratory
1595.0	[m]	SWC	
1610.0	[m]	SWC	
1625.0	[m]	SWC	
1631.5	[m]	SWC	
1636.5	[m]	SWC	
1653.0	[m]	SWC	



1661.0 [m]	SWC	
1664.0 [m]	SWC	
1667.5 [m]	SWC	
1672.0 [m]	SWC	
1679.0 [m]	SWC	
1697.5 [m]	SWC	
1711.5 [m]	SWC	
1722.0 [m]	SWC	
1727.0 [m]	SWC	
1731.0 [m]	DC	
1734.0 [m]	SWC	
1737.0 [m]	DC	
1745.0 [m]	DC	
1745.0 [m]	SWC	
1749.0 [m]	SWC	
1762.0 [m]	SWC	
1772.0 [m]	SWC	
1779.0 [m]	SWC	
1782.0 [m]	SWC	
1783.0 [m]	SWC	
1784.0 [m]	SWC	
1809.0 [m]	SWC	
1827.5 [m]	SWC	
1839.0 [m]	SWC	
1854.0 [m]	SWC	
1858.5 [m]	SWC	
1862.5 [m]	SWC	
1877.0 [m]	SWC	
1879.5 [m]	SWC	
1882.0 [m]	SWC	
1889.0 [m]	SWC	
1894.5 [m]	SWC	
1898.0 [m]	SWC	
1901.0 [m]	SWC	
1903.0 [m]	SWC	

Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
152	NORDLAND GP
589	UTSIRA FM
726	NO FORMAL NAME
749	HORDALAND GP
749	SKADE FM
971	NO FORMAL NAME
994	SKADE FM
1016	NO FORMAL NAME
1243	SKADE FM
1290	NO FORMAL NAME
1675	ROGALAND GP
1675	BALDER FM
1731	SELE FM
1751	LISTA FM
1785	HEIMDAL FM
1890	VÅLE FM
1904	SHETLAND GP
1904	EKOFISK FM

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

Document name	Document format	Document size [MB]
372_01_WDSS_General_Information	pdf	0.13
372_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]
372_25_11_12_Completion_Log	pdf	1.17
372_25_11_12_Completion_Report	pdf	6.23

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DEN NEU GR	1290	1918





DIPLOG	1295	1917
DLL MLL GR	1295	1918
IEL BHC AC GR SP	150	1917
SWC	1595	1909
VELOCITY	150	1918

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	226.0	36	226.0	0.00	LOT
INTERM.	13 3/8	446.5	17 1/2	460.0	1.77	LOT
INTERM.	9 5/8	1301.0	12 1/4	1315.0	1.75	LOT
OPEN HOLE		1918.0	8 1/2	1918.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
340	1.08	47.0		waterbased	
770	1.10	40.0		waterbased	
1450	1.18	45.0		waterbased	
1840	1.19	46.0		waterbased	