

**General information**

Wellbore name	25/11-4
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	25/11-4
Seismic location	line SC -68 sp 6942
Production licence	001
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	49-L
Drilling facility	GLOMAR GRAND ISLE
Drilling days	37
Entered date	15.10.1970
Completed date	20.11.1970
Release date	20.11.1972
Publication date	30.04.2010
Purpose - planned	APPRAISAL
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	10.0
Water depth [m]	127.0
Total depth (MD) [m RKB]	1896.0
Bottom hole temperature [°C]	71
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	59° 9' 37.3" N
EW degrees	2° 23' 26.53" E
NS UTM [m]	6558219.15
EW UTM [m]	465155.95
UTM zone	31
NPDID wellbore	186

**Wellbore history****General**

Well 25/11-4 was drilled ca 2.6 km south-south west of the 25/11-1 Balder discovery well on the Utsira High in the North Sea. The objective was to define the continuity of oil bearing sands of Early Eocene age that were present in 25/11-1 well.

Operations and results

Appraisal well 25/11-4 was spudded with the vessel Glomar Grand Isle on 15 October 1970 and drilled to TD at 1896 m in the Early Paleocene Ekofisk Formation. Drilling operations were normal down to 963 m and at that depth problems with the Hydril necessitated pulling the riser and upper part of the B.O.P. stack. While drilling at 1753 m weather conditions hampered drilling and it was necessary to again pull the riser and upper part of the stack. After losing several days due to weather conditions the well was completed, however, during the midst of the logging operations, storm warnings made it necessary to shorten the program and the planned velocity survey was not made. Initial drilling from the seafloor to 179 m was with sea water and gel. Below 179 to a depth of 948 m, the mud system consisted of seawater, Spersene XP-20 Salinex. From 948 m to TD fresh water Spersene XP-20 mud was used.

The well penetrated the Utsira Formation and several Skade Formation sand units and then entered a ca 500 m thick section of shales belonging to the lower Hordaland Group before top Balder formation was encountered at 1695 m. The Balder Formation (Early Eocene) proved almost void of reservoirs. It was all silty shale except a 4 foot sand section between 1740 and 1742 m. This sand had a good oil stain, bright yellow fluorescence and a bright yellow cut. The only massive reservoir present was the Paleocene Hermod Formation sand from 1792 to 1816 m. This sand had no hydrocarbon shows.

No conventional cores were cut in the well and no wire line fluid sampling was attempted.

The well was permanently abandoned on 20 November 1970 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]
405.38	1896.47

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



Sample depth	Depth unit	Sample type	Laboratory
4290.0	[ft]	DC	
4380.0	[ft]	DC	
4500.0	[ft]	DC	
4590.0	[ft]	DC	
4680.0	[ft]	DC	
4800.0	[ft]	DC	
4890.0	[ft]	DC	
4980.0	[ft]	DC	
5100.0	[ft]	DC	
5190.0	[ft]	DC	
5280.0	[ft]	DC	
5400.0	[ft]	SWC	
5400.0	[ft]	DC	
5428.0	[ft]	SWC	
5460.0	[ft]	SWC	
5490.0	[ft]	DC	
5500.0	[ft]	SWC	
5520.0	[ft]	SWC	
5550.0	[ft]	SWC	
5575.0	[ft]	SWC	
5580.0	[ft]	DC	
5590.0	[ft]	SWC	
5610.0	[ft]	SWC	
5630.0	[ft]	SWC	
5664.0	[ft]	SWC	
5680.0	[ft]	SWC	
5700.0	[ft]	SWC	
5700.0	[ft]	DC	
5730.0	[ft]	DC	
5735.0	[ft]	SWC	
5760.0	[ft]	SWC	
5770.0	[ft]	SWC	
5782.0	[ft]	SWC	
5790.0	[ft]	DC	
5803.0	[ft]	SWC	
5820.0	[ft]	SWC	
5850.0	[ft]	DC	
5855.0	[ft]	SWC	
5875.0	[ft]	SWC	



5876.0	[ft]	SWC	
5880.0	[ft]	DC	
5920.0	[ft]	SWC	
5940.0	[ft]	DC	
5970.0	[ft]	SWC	
5985.0	[ft]	SWC	
6000.0	[ft]	DC	
6025.0	[ft]	SWC	
6030.0	[ft]	DC	
6040.0	[ft]	SWC	
6055.0	[ft]	SWC	
6070.0	[ft]	SWC	
6090.0	[ft]	DC	
6100.0	[ft]	SWC	
6128.0	[ft]	SWC	
6140.0	[ft]	SWC	
6157.0	[ft]	SWC	
6173.0	[ft]	SWC	
6180.0	[ft]	DC	
6182.0	[ft]	SWC	
6210.0	[ft]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
137	NORDLAND GP
636	UTSIRA FM
766	NO FORMAL NAME
792	HORDALAND GP
792	SKADE FM
1203	NO FORMAL NAME
1695	ROGALAND GP
1695	BALDER FM
1740	INTRA BALDER FM SS
1742	BALDER FM
1776	SELE FM
1792	HERMOD FM
1816	SELE FM
1820	LISTA FM



1874	SHETLAND GP
1874	EKOFISK FM

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

Document name	Document format	Document size [MB]
186 01 WDSS General Information	pdf	0.15

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

Document name	Document format	Document size [MB]
186 01 25 11 4 Completion log	pdf	1.03
186 01 25 11 4 Completion Report	pdf	12.98

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
186 01 NPD Paper No.28 Lithology Balder area Well 25 11 4	pdf	18.56
186 02 NPD Paper No.28 Biostratigraphy of Well 25 11 4	pdf	0.73
186 03 NPD Paper No.28 Lithologic Correlation chart Well 25 11 4	pdf	0.48

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC SON GR	947	1883
FDC	947	1886
GR	137	947
IES	947	1885

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	179.0	36	180.0	0.00	LOT
SURF.COND.	20	384.0	26	406.0	0.00	LOT
INTERM.	9 5/8	948.0	12 1/4	963.0	0.00	LOT
OPEN HOLE		1896.0	8 1/2	1896.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
188	0.00			seawater/ge	
963	0.00			seawater/sp	
1896	0.00			water/spers	