

**General information**

Wellbore name	25/11-3
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	25/11-3
Seismic location	line SC 71 & sp 7375
Production licence	001
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	48-L
Drilling facility	GLOMAR GRAND ISLE
Drilling days	20
Entered date	25.09.1970
Completed date	14.10.1970
Release date	14.10.1972
Publication date	30.04.2010
Purpose - planned	APPRAISAL
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	10.0
Water depth [m]	127.0
Total depth (MD) [m RKB]	1858.0
Bottom hole temperature [°C]	63
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	59° 10' 33.89" N
EW degrees	2° 26' 15.39" E
NS UTM [m]	6559946.05
EW UTM [m]	467853.06
UTM zone	31
NPDID wellbore	185



Wellbore history

General

Well 25/11-3 was drilled ca 1.5 km south of the 25/11-1 Balder discovery well on the Utsira High in the North Sea. The objective was to test the reservoir continuity, sand correlation and possible thickening of the 25/11-1 Early Eocene oil sands in a South-easterly direction.

Operations and results

Appraisal well 25/11-3 was spudded with the vessel Glomar Grand Isle on 25 September 1970 and drilled to TD at 1858 m in the Early Paleocene Ekofisk Formation. North Sea fall storms were the cause of drilling problems experienced on this well. Cumulative lost time due to waiting-on-weather alone amounted to 23.3% of the total rig days. While at the depth of 1228 m, one of the severe storms necessitated pulling the bit into the 9-5/8 inch casing and hanging off the drill pipe. After the storm abated and the hang off tool recovered, it was found that the 5 inch drill pipe extension below the tool had parted, allowing the drill string to fall to bottom. Fortunately the fish was recovered in one run with an overshot. The hole was then drilled to TD with no further problems. Initial drilling from the seafloor to 396 m was with sea water and gel. Below 396 to a depth of 960 m, the mud system consisted of seawater, Spersene XP-20 Salinex. From 960 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 600 m thick section of shales belonging to the lower Hordaland Group before top Balder formation was encountered at 1711 m. Only thin Paleocene sands were encountered, and all were water wet without shows.

No conventional cores were cut in the well. Four FIT fluid samplings were attempted in the Paleocene, but due to seal failure and tight formation no formation fluids were recovered, only mud.

The well was permanently abandoned on 14 October 1970 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]
402.34	1837.94

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

Sample depth	Depth unit	Sample type	Laboratory
1560.0	[m]	DC	RRI



1600.0 [m]	DC	RRI
1620.0 [m]	DC	RRI
1630.0 [m]	DC	RRI
1650.0 [m]	DC	RRI
1680.0 [m]	DC	RRI
1689.0 [m]	DC	RRI
1704.0 [m]	DC	RRI
1719.0 [m]	DC	RRI
1749.0 [m]	DC	RRI
1755.0 [m]	DC	RRI
1761.0 [m]	DC	RRI
1770.0 [m]	DC	RRI
1791.0 [m]	DC	RRI
1810.0 [m]	DC	RRI
4380.0 [ft]	DC	
4500.0 [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]	DC	
5490.0 [ft]	DC	
5525.0 [ft]	SWC	
5570.0 [ft]	SWC	
5580.0 [ft]	DC	
5590.0 [ft]	SWC	
5600.0 [ft]	SWC	
5620.0 [ft]	SWC	
5630.0 [ft]	SWC	
5650.0 [ft]	SWC	
5670.0 [ft]	SWC	
5670.0 [ft]	DC	
5697.0 [ft]	SWC	
5700.0 [ft]	DC	
5700.0 [ft]	DC	
5708.0 [ft]	SWC	
5712.0 [ft]	SWC	



5722.0 [ft]	SWC	
5724.0 [ft]	SWC	
5730.0 [ft]	SWC	
5730.0 [ft]	DC	
5760.0 [ft]	DC	
5770.0 [ft]	SWC	
5790.0 [ft]	DC	
5820.0 [ft]	SWC	
5820.0 [ft]	DC	
5820.0 [ft]	DC	
5840.0 [ft]	SWC	
5848.0 [ft]	SWC	
5850.0 [ft]	DC	
5852.0 [ft]	SWC	
5860.0 [ft]	SWC	
5870.0 [ft]	SWC	
5880.0 [ft]	DC	
5890.0 [ft]	SWC	
5900.0 [ft]	SWC	
5915.0 [ft]	SWC	
5945.0 [ft]	SWC	
5963.0 [ft]	SWC	
5971.0 [ft]	SWC	
5973.0 [ft]	SWC	
5976.0 [ft]	SWC	
5980.0 [ft]	SWC	
5990.0 [ft]	SWC	
6000.0 [ft]	DC	
6053.0 [ft]	SWC	
6082.0 [ft]	SWC	
6095.0 [ft]	SWC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
137	NORDLAND GP
622	UTSIRA FM
732	NO FORMAL NAME
772	HORDALAND GP



772	SKADE FM
978	NO FORMAL NAME
1003	SKADE FM
1120	NO FORMAL NAME
1711	ROGALAND GP
1711	BALDER FM
1747	SELE FM
1757	LISTA FM
1782	HEIMDAL FM
1783	LISTA FM
1817	VÅLE FM
1824	TY FM
1844	VÅLE FM
1852	SHETLAND GP
1852	EKOFISK FM

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

Document name	Document format	Document size [MB]
185 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]
185 01 25 11 3 Completion log	pdf	1.05
185 01 25 11 3 Completion Report	pdf	3.19

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
185 01 NPD Paper No.28 Lithology Balder area Well 25 11 3	pdf	18.56
185 02 NPD Paper No.28 Lithologic Correlation chart Well 25 11 3	pdf	0.48
185 03 NPD Paper No.28 Log Correlation chart Profile NW-SE Well 25 11 3	pdf	0.25



**Logs**

Log type	Log top depth [m]	Log bottom depth [m]
BHC SON GR	948	1854
FDC	948	1857
GR	140	948
IEL	949	1857

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	161.0	36	169.0	0.00	LOT
SURF.COND.	13 3/8	389.0	17 1/2	389.0	0.00	LOT
INTERM.	9 5/8	948.0	12 1/4	960.0	0.00	LOT
OPEN HOLE		1856.0	8 1/2	1856.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
396	0.00			seawater/ge	
960	0.00			seawater/sp	
1856	0.00			water/spers	