



General information

Wellbore name	25/11-2
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	25/11-2
Seismic location	LINE SC 72 & sp 6660
Production licence	001
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	47-L
Drilling facility	GLOMAR GRAND ISLE
Drilling days	12
Entered date	13.09.1970
Completed date	24.09.1970
Release date	24.09.1972
Publication date	30.04.2010
Purpose - planned	APPRAISAL
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	10.0
Water depth [m]	130.0
Total depth (MD) [m RKB]	1824.0
Final vertical depth (TVD) [m RKB]	1824.0
Bottom hole temperature [°C]	61
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	SELE FM
Geodetic datum	ED50
NS degrees	59° 13' 0.5" N
EW degrees	2° 24' 33.35" E
NS UTM [m]	6564495.02
EW UTM [m]	466273.05
UTM zone	31
NPDID wellbore	184



Wellbore history

General

Well 25/11-2 was drilled to appraise the 25/11-1 Balder discovery on the Utsira High in the North Sea. The objective was to define the continuity and reservoir thickness of the Early Eocene oil bearing sands in a northward direction from well 25/11-1 and a southward direction from well 25/8-1.

Operations and results

Appraisal well 25/11-2 was spudded with the vessel Glomar Grand Isle on 13 September 1970 and drilled to TD at 1823 m in the Paleocene Sele Formation. No significant problems occurred during the operations. The well was drilled with seawater/gel down to 175 m, with seawater/Spersene/ XP-20/Salinex from 175 m to 945 m, and with fresh water/ Spersene/XP-20 from 945 to TD.

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 1699 m. The Balder Formation contained several thin Intra Balder Formation sandstones, of which a seven meter thick sandstone at 1727 m was the thickest. The sands were oil bearing down to 1747 m. Hermod sandstones were penetrated from 1780 to 1817 m. They had better reservoir properties than the Intra Balder Formation sands, but were water bearing without shows.

No conventional cores were cut in the well. Out of four attempts with the Formation Interval Tester (FIT) three tests were seal failures while test no 4, at 1728.5 m, was successful and recovered 0.33 Sm³ gas, 6.9 l oil, and 3.25 l oil and gas cut mud.

The well was permanently abandoned on 24 September as an oil appraisal.

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	1822.71

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

Sample depth	Depth unit	Sample type	Laboratory
3000.0	[ft]	DC	
3090.0	[ft]	DC	
3180.0	[ft]	DC	



Factpages

Wellbore / Exploration

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3300.0 [ft]	DC	
3390.0 [ft]	DC	
3480.0 [ft]	DC	
3600.0 [ft]	DC	
3690.0 [ft]	DC	
3780.0 [ft]	DC	
3900.0 [ft]	DC	
3990.0 [ft]	DC	
4080.0 [ft]	DC	
4170.0 [ft]	DC	
4290.0 [ft]	DC	
4380.0 [ft]	DC	
4500.0 [ft]	DC	
4590.0 [ft]	DC	
4680.0 [ft]	DC	
4770.0 [ft]	DC	
4890.0 [ft]	DC	
4980.0 [ft]	DC	
5100.0 [ft]	DC	
5190.0 [ft]	DC	
5300.0 [ft]	DC	
5320.0 [ft]	DC	
5360.0 [ft]	DC	
5400.0 [ft]	DC	
5440.0 [ft]	DC	
5460.0 [ft]	DC	
5480.0 [ft]	DC	
5500.0 [ft]	DC	
5520.0 [ft]	DC	
5539.0 [ft]	SWC	
5554.0 [ft]	SWC	
5560.0 [ft]	SWC	
5580.0 [ft]	DC	
5583.0 [ft]	SWC	
5640.0 [ft]	SWC	
5654.0 [ft]	SWC	
5670.0 [ft]	DC	
5722.0 [ft]	SWC	
5740.0 [ft]	SWC	
5776.0 [ft]	SWC	



5788.0 [ft]	SWC	
5790.0 [ft]	DC	
5800.0 [ft]	SWC	
5828.0 [ft]	SWC	
5862.0 [ft]	SWC	
5880.0 [ft]	DC	
5970.0 [ft]	SWC	
5970.0 [ft]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
140	NORDLAND GP
582	UTSIRA FM
716	NO FORMAL NAME
747	HORDALAND GP
747	SKADE FM
939	NO FORMAL NAME
997	SKADE FM
1015	NO FORMAL NAME
1086	SKADE FM
1092	NO FORMAL NAME
1699	ROGALAND GP
1699	BALDER FM
1727	INTRA BALDER FM SS
1734	BALDER FM
1765	SELE FM
1780	HERMOD FM
1817	SELE FM

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

Document name	Document format	Document size [MB]
184_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]
184_01_25_11_2_Completion_log	pdf	1.01
184_01_25_11_2_Completion_Report	pdf	3.20

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
184_01_NPD_Paper_No.28_Lithology_Balder_area_Well_25_11_2	pdf	18.56
184_02_NPD_Paper_No.28_Lithologic_Correlation_chart_Well_25_11_2	pdf	0.48
184_03_NPD_Paper_No.28_Log_Correlation_chart_Profile_NE-SW_Well_25_11_2	pdf	0.41

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FDC	944	1822
GR	137	944
IEL	944	1823
NHC SON GR	944	1819
VELOCITY	944	1824

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	175.0	36	180.0	0.00	LOT
SURF.COND.	13 3/8	388.0	17 1/2	405.0	0.00	LOT
INTERM.	9 5/8	945.0	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
175	0.00			seawater/ge	
945	0.00			seawater/sp	





1823	0.00		water/spers	
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Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
184 Formation pressure (Formasjonstrykk)	pdf	0.18

