



General information

Wellbore name	25/11-11
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	25/11-11
Seismic location	BALMG 179 SP: 162
Production licence	001
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	278-L
Drilling facility	GLOMAR BISCAY II
Drilling days	29
Entered date	18.02.1981
Completed date	18.03.1981
Release date	18.03.1983
Publication date	17.06.2011
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	EOCENE
1st level with HC, formation	INTRA BALDER FM SS
2nd level with HC, age	PALEOCENE
2nd level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	25.0
Water depth [m]	126.0
Total depth (MD) [m RKB]	1960.0
Final vertical depth (TVD) [m RKB]	1960.0
Maximum inclination [°]	4
Bottom hole temperature [°C]	55
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	59° 11' 47.2" N



EW degrees	2° 20' 47.43" E
NS UTM [m]	6562261.12
EW UTM [m]	462667.99
UTM zone	31
NPDID wellbore	371

Wellbore history

General

Well 25/11-11 was drilled to appraise the Balder Field on the Utsira High in the North Sea. The objective was to establish the presence of an accumulation of oil sand in the western part of the Balder Field, and evaluate the geologic concept of sand-shale distribution and reservoir quality. The top of the reservoir was anticipated to be at 1708 m MSL.

Operations and results

Appraisal well 25/11-11 was spudded with the semi-submersible installation Glomar Biscay II on 18 February 1981 and drilled to TD at 1960 m in the Danian age chalk of the Ekofisk Formation. The well was drilled with seawater and gel/lignosulphonate.

One main oil sand of Paleocene age (Heimdal Formation) was encountered at 1754 m (1729 m TVD MSL). It was 141.5 m thick and was oil-bearing in the upper 29 m down to an OWC at 1783 m (1758 m TVD MSL). This OWC was in agreement with the general field OWC in the area. Average porosity in the oil sand was 32.6%. Shows of hydrocarbons were also present in a 16 m thick Intra Balder Formation Sandstone with top at 1698 m, and in thin sand stringers within the Sele Formation.

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

The well was permanently abandoned on 18 March 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]
230.00	1960.00

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

Sample depth	Depth unit	Sample type	Laboratory
1405.0	[m]	SWC	



1550.0 [m]	SWC	
1600.0 [m]	SWC	
1668.0 [m]	SWC	
1677.5 [m]	SWC	
1692.0 [m]	SWC	
1700.0 [m]	SWC	
1705.0 [m]	SWC	
1712.0 [m]	SWC	
1712.0 [m]	DC	
1718.0 [m]	DC	
1721.0 [m]	SWC	
1724.0 [m]	DC	
1730.0 [m]	DC	
1730.0 [m]	SWC	
1737.5 [m]	SWC	
1738.0 [m]	SWC	
1739.0 [m]	SWC	
1746.0 [m]	SWC	
1746.5 [m]	SWC	
1750.0 [m]	SWC	
1752.0 [m]	SWC	
1753.0 [m]	SWC	
1756.0 [m]	SWC	
1757.0 [m]	SWC	
1760.0 [m]	SWC	
1770.0 [m]	SWC	
1775.0 [m]	SWC	
1780.0 [m]	SWC	
1784.0 [m]	SWC	
1789.0 [m]	SWC	
1790.0 [m]	SWC	
1792.5 [m]	SWC	
1803.0 [m]	SWC	
1840.0 [m]	SWC	
1862.0 [m]	SWC	
1880.0 [m]	SWC	
1900.0 [m]	SWC	
1905.0 [m]	SWC	
1925.0 [m]	SWC	
1942.0 [m]	SWC	

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
151	NORDLAND GP
574	UTSIRA FM
714	NO FORMAL NAME
758	HORDALAND GP
758	SKADE FM
959	NO FORMAL NAME
1068	SKADE FM
1085	NO FORMAL NAME
1218	GRID FM
1245	NO FORMAL NAME
1655	ROGALAND GP
1655	BALDER FM
1698	INTRA BALDER FM SS
1714	SELE FM
1738	LISTA FM
1754	HEIMDAL FM
1895	LISTA FM
1940	SHETLAND GP
1940	EKOFISK FM

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

Document name	Document format	Document size [MB]
371_01_WDSS_General_Information	pdf	0.10
371_02_WDSS_completion_log	pdf	0.14

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

Document name	Document format	Document size [MB]
371_25_11_11_Completion_Log	pdf	1.18
371_25_11_11_Completion_Report	pdf	6.97





Logs

Log type	Log top depth [m]	Log bottom depth [m]
DEN NEU GR	1302	1962
DIPLOG	1302	1962
DLL MLL GR	1305	1962
IEL BHC AC GR SP	150	1960
SWC	1405	1942
VELOCITY	150	1961

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	214.0	36	214.0	0.00	LOT
INTERM.	13 3/8	507.8	17 1/2	523.0	1.75	LOT
INTERM.	9 5/8	1302.0	12 1/4	1317.0	1.81	LOT
OPEN HOLE		1972.0	8 1/2	1972.0	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	42.0		waterbased	
610	1.11	45.0		waterbased	
1080	1.08	38.0		waterbased	
1340	1.15	46.0		waterbased	