General information

Wellbore name	25/11-9
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	25/11-9
Seismic location	218 SP.227
Production licence	001
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	266-L
Drilling facility	NORSKALD
Drilling days	34
Entered date	04.11.1980
Completed date	07.12.1980
Release date	07.12.1982
Publication date	30.04.2010
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL/GAS
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	HERMOD FM
Kelly bushing elevation [m]	25.0
Water depth [m]	126.0
Total depth (MD) [m RKB]	1910.0
Final vertical depth (TVD) [m RKB]	1910.0
Bottom hole temperature [°C]	57
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	TOR FM
Geodetic datum	ED50
NS degrees	59° 10' 14.02'' N
EW degrees	2° 22' 30.84'' E

NS UTM [m]	6559363.15
EW UTM [m]	464281.94
UTM zone	31
NPDID wellbore	213

Wellbore history

General

Well 25/11-9 was drilled ca km west-south west of the 25/11-1 Balder discovery well on the Utsira High in the North Sea. The objective was to establish the presence of a thick accumulation of oil sand in the southern part of the Balder Field, and to confirm the reservoir quality of Lobe 8 penetrated in the 25/11-5 well. The top of the reservoir was anticipated to be at 1688 m subsea.

Operations and results

Appraisal well 25/11-9 was spudded with the semi-submersible installation Norskald on 4 November 1980 and drilled to TD at 1910 m in the Late Cretaceous Tor Formation. The well was drilled with Seawater/Gel/Lignosulphonate.

The well penetrated the Utsira Formation and several Skade Formation sands and then penetrated a ca 560 m thick section of shale/mudstone/siltstone belonging to the lower Hordaland Group before top Balder Formation was encountered at 1670 m. Drilling revealed two oil sand zones, one of Eocene age between 1708.5 m and 1742 m (Intra Balder Formation sand), the second of Paleocene age (Hermod Formation) between 1781 m and 1785 m, which is the Balder Field oil-water contact. A few thin sands in the upper Balder Formation from 1671 m to1694 m also appeared to be oil bearing. A second Hermod Formation from 1789 to 1818 m was water wet with some weak shows.

Four conventional cores were attempted in the interval 1718 to 1744 m in the Intra Balder Formation Sandstone, but only 3.5 m from the first and 1.5 m from the last core was retrieved. No wire line fluid samples were taken.

The well was permanently abandoned on 7 December 1980 as an oil appraisal well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
220.00	1910.00

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1718.0	1721.5	[m]
4	1734.0	1735.0	[m]

Total core sample length [m]	4.5
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1250.0	[m]	SWC	
1300.0	[m]	SWC	
1310.0	[m]	SWC	
1320.0	[m]	SWC	
1378.0	[m]	SWC	
1405.0	[m]	SWC	
1450.0	[m]	SWC	
1500.0	[m]	SWC	
1557.0	[m]	SWC	
1600.0	[m]	SWC	
1630.0	[m]	SWC	
1649.0	[m]	DC	
1661.0	[m]	DC	
1673.0	[m]	DC	
1679.0	[m]	DC	
1690.0	[m]	SWC	
1695.0	[m]	SWC	
1705.0	[m]	SWC	
1712.0	[m]	SWC	
1718.0	[m]	SWC	
1723.0	[m]	SWC	
1725.0	[m]	SWC	
1728.0	[m]	SWC	
1730.0	[m]	SWC	
1733.0	[m]	SWC	
1743.0	[m]	SWC	
1748.0	[m]	SWC	
1752.0	[m]	SWC	
1755.0	[m]	SWC	

1760.0	[m]	SWC	
1765.0	[m]	SWC	
1770.0	[m]	SWC	
1772.0	[m]	DC	
1778.0	[m]	DC	
1782.0	[m]	SWC	
1784.0	[m]	DC	
1787.0	[m]	SWC	
1790.0	[m]	SWC	
1790.0	[m]	DC	
1805.0	[m]	SWC	
1820.0	[m]	SWC	
1820.0	[m]	DC	
1825.0	[m]	SWC	
1826.0	[m]	DC	
1832.0	[m]	DC	
1835.0	[m]	SWC	
1838.0	[m]	DC	
1841.0	[m]	DC	
1845.0	[m]	SWC	
1847.0	[m]	DC	
1853.0	[m]	DC	
1855.0	[m]	SWC	
1859.0	[m]	DC	
1865.0	[m]	SWC	
1865.0	[m]	DC	
1870.0	[m]	DC	
1875.0	[m]	SWC	
1877.0	[m]	DC	
1885.0	[m]	SWC	
1889.0	[m]	DC	
1889.0	[m]	DC	
1895.0	[m]	SWC	
1901.0	[m]	DC	
1910.0	[m]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
151	NORDLAND GP
620	UTSIRA FM
745	NO FORMAL NAME
770	HORDALAND GP
770	SKADE FM
935	NO FORMAL NAME
1000	SKADE FM
1022	NO FORMAL NAME
1040	SKADE FM
1045	NO FORMAL NAME
1077	SKADE FM
1112	NO FORMAL NAME
1670	ROGALAND GP
1670	BALDER FM
1713	INTRA BALDER FM SS
1741	BALDER FM
1768	SELE FM
1782	HERMOD FM
1783	SELE FM
1789	HERMOD FM
1818	SELE FM
1825	LISTA FM
1855	HEIMDAL FM
1863	LISTA FM
1882	VÅLE FM
1887	SHETLAND GP
1887	EKOFISK FM
1902	TOR FM

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

Document name	Document format	Document size [MB]
213_01_WDSS_General_Information	pdf	0.12
213_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]
213_01_25_11_9_Completion_log	pdf	1.40
213_01_25_11_9_Completion_Report	pdf	3.91

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CDL CNL GR	1185	1909
DIPLOG	1208	1909
DLL MLL GR	1192	1909
IEL BHC AC SP GR	150	1908
SWC	1250	1895
SWC	1718	1790
VELOCITY	150	1909

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	213.5		0.0	0.00	
INTERM.	13 3/8	482.3		0.0	0.00	
INTERM.	9 5/8	1207.5		0.0	0.00	
OPEN HOLE		1910.0	8 1/2	1910.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
145	1.04			waterbased	
300	1.05			waterbased	
473	1.08			waterbased	
820	1.11	46.0		waterbased	
1200	1.09			waterbased	
1693	1.11	66.0		waterbased	