General information

Wellbore name	25/11-7
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	25/11-7
Seismic location	
Production licence	001
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	204-L
Drilling facility	NORSKALD
Drilling days	25
Entered date	03.10.1978
Completed date	27.10.1978
Release date	27.10.1980
Publication date	30.04.2010
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]	124.0
Total depth (MD) [m RKB]	1944.0
Maximum inclination [°]	1
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	TOR FM
Geodetic datum	ED50
NS degrees	59° 10' 33.07'' N
EW degrees	2° 21' 47.23'' E
NS UTM [m]	6559958.95
EW UTM [m]	463595.03

UTM zone	31
NPDID wellbore	368

Wellbore history

General

Well 25/11-7 was drilled ca 3 km west-south west of the 25/11-1 Balder discovery well on the Utsira High in the North Sea. The primary objective was to delineate topographic mounds developed in the Paleocene sands of the Balder Field. The primary targets were the Zone II sand (E-70 sand) which was found oil-bearing in the 25/11-5 and the Zone I-B sands which were found oil-bearing in the 25/11-6.

Operations and results

Appraisal well 25/11-7 was spudded with the semi-submersible installation Norskald on 3 October 1978 and drilled to TD at 1944 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 600 m thick section of shales belonging to the lower Hordaland Group before top Balder Formation was encountered at 1697 m. The Balder Formation contained some shaley sands with poor to no oil shows. The massive I-B sand at 1750.3 m (Heimdal Formation) was the only significant oil sand in the well. The well proved 36 m of net oil sand with a clear oil-water contact at 1786.5 m (1761.5 m MSL), in reasonable agreement with the Balder Field contact at 1760 m MSL established in 25/11 -6. The Zone II (E-70) sand was absent, or possibly an unrecognizable part of the I-B Sand.

A total of 20.35 m core was recovered in four cores from the interval 1748.6 to 1772.3 m in the Lista and Heimdal Formations. No wire line fluid samples were taken.

The well was permanently abandoned on 27 October 1978 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]
1070.00	1945.30

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	1748.6	1751.0	[m]
2	1751.0	1753.0	[m]
3	1753.0	1762.4	[m]
4	1762.4	1772.3	[m]

Total core sample length [m]	23.7
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1090.0	[m]	DC	CGG
1110.0	[m]	DC	CGG
1150.0	[m]	DC	CGG
1190.0	[m]	DC	CGG
1220.0	[m]	DC	CGG
1300.0	[m]	DC	CGG
1350.0	[m]	DC	CGG
1360.0	[m]	DC	CGG
1370.0	[m]	DC	CGG
1380.0	[m]	DC	CGG
1400.0	[m]	DC	CGG
1430.0	[m]	DC	CGG
1440.0	[m]	DC	CGG
1450.0	[m]	DC	CGG
1460.0	[m]	DC	CGG
1470.0	[m]	DC	CGG
1480.0	[m]	DC	CGG
1490.0	[m]	DC	CGG
1560.0	[m]	DC	CGG
1580.0	[m]	DC	CGG
1600.0	[m]	DC	
1625.0	[m]	SWC	
1630.0	[m]	DC	
1638.0	[m]	SWC	
1652.0	[m]	SWC	
1655.0	[m]	DC	CGG
1659.0	[m]	SWC	

1665.0	[m]	DC	
1665.0	[m]	DC	CGG
1670.0	[m]	DC	CGG
1675.0	[m]	DC	CGG
1675.0	[m]	SWC	
1680.0	[m]	DC	CGG
1686.0	[m]	SWC	
1690.0	[m]	DC	CGG
1695.0	[m]	DC	
1698.0	[m]	SWC	
1700.0	[m]	DC	CGG
1705.0	[m]	DC	CGG
1705.0	[m]	DC	CGG
1710.0	[m]	DC	CGG
1715.0	[m]	DC	CGG
1717.0	[m]	SWC	
1720.0	[m]	DC	CGG
1725.0	[m]	DC	
1727.0	[m]	SWC	
1730.0	[m]	DC	CGG
1734.0	[m]	SWC	
1740.0	[m]	DC	CGG
1743.0	[m]	SWC	
1748.8	[m]	C	
1749.0	[m]	C	
1749.0	[m]	SWC	
1782.0	[m]	SWC	
1785.0	[m]	DC	
1803.0	[m]	SWC	
1815.0	[m]	DC	
1825.0	[m]	DC	CGG
1829.0	[m]	SWC	
1835.0	[m]	DC	CGG
1845.0	[m]	C	
1845.5	[m]	SWC	
1850.0	[m]	DC	CGG
1851.0	[m]	SWC	
1855.0	[m]	DC	CGG
1858.0	[m]	SWC	
1860.0	[m]	DC	CGG

1861.0	[m]	SWC	
1875.0	[m]	DC	CGG
1875.0	[m]	C	
1878.5	[m]	SWC	
1880.0	[m]	DC	CGG
1883.0	[m]	SWC	
1885.0	[m]	DC	CGG
1889.5	[m]	SWC	
1890.0	[m]	DC	CGG
1895.0	[m]	SWC	
1899.0	[m]	SWC	
1900.0	[m]	DC	CGG
1904.0	[m]	SWC	
1905.0	[m]	DC	
1908.0	[m]	SWC	
1914.0	[m]	SWC	
1918.0	[m]	SWC	
1920.0	[m]	DC	CGG
1925.0	[m]	DC	
1930.0	[m]	DC	
1940.0	[m]	SWC	
1945.3	[m]	C	
10000.0	[m]	C	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
149	NORDLAND GP
598	UTSIRA FM
742	NO FORMAL NAME
767	HORDALAND GP
767	SKADE FM
925	NO FORMAL NAME
960	SKADE FM
975	NO FORMAL NAME
1055	SKADE FM
1087	NO FORMAL NAME
1667	ROGALAND GP
1667	BALDER FM

1678	INTRA BALDER FM SS
1697	BALDER FM
1701	INTRA BALDER FM SS
1711	SELE FM
1716	LISTA FM
1751	HEIMDAL FM
1850	LISTA FM
1862	HEIMDAL FM
1875	LISTA FM
1918	VÅLE FM
1921	SHETLAND GP
1921	EKOFISK FM
1930	TOR FM

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

Document name	Document format	Document size [MB]
368_01_WDSS_General_Information	pdf	0.22
368_03_WDSS_lithlog	pdf	0.05

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

Document name	Document format	Document size [MB]
368_01_25_11_7_Completion_log	pdf	1.28
368_01_25_11_7_Completion_Report	pdf	100.03

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CAL	1311	1845
DLL MSFL	1500	1945
FDC CNL	1500	1945
GR	149	410
HDT	1500	1945
ISF SONIC	184	410
ISF SONIC	396	1316

ISF SONIC	1311	1944
VELOCITY	930	1945

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	186.0	36	186.0	0.00	LOT
INTERM.	13 3/8	396.0	17 1/2	412.0	0.00	LOT
INTERM.	9 5/8	1308.0	12 1/4	1325.0	0.00	LOT
OPEN HOLE		1944.0	8 1/2	1944.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
186	0.00			waterbased	
694	1.08			waterbased	
1325	1.06			waterbased	
1531	1.11			waterbased	
1944	1.13			waterbased	