

**General information**

Wellbore name	25/8-12 S
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	BALDER
Discovery	25/8-11 Ringhorne
Well name	25/8-12
Seismic location	
Production licence	027
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	954-L
Drilling facility	MÆRSK JUTLANDER
Drilling days	12
Entered date	29.05.1999
Completed date	09.06.1999
Release date	09.06.2001
Publication date	18.12.2002
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	PALEOCENE
1st level with HC, formation	HERMOD FM
2nd level with HC, age	EARLY JURASSIC
2nd level with HC, formation	STATFJORD GP
Kelly bushing elevation [m]	23.0
Water depth [m]	127.0
Total depth (MD) [m RKB]	2096.0
Final vertical depth (TVD) [m RKB]	2085.0
Maximum inclination [°]	11.63
Bottom hole temperature [°C]	82
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SMITH BANK FM
Geodetic datum	ED50
NS degrees	59° 17' 22.57" N



EW degrees	2° 26' 39.45" E
NS UTM [m]	6572584.32
EW UTM [m]	468340.44
UTM zone	31
NPDID wellbore	3771

Wellbore history

General

Well 25/8-12 S was drilled to appraise the southern extension of the 25/8-11 discovery on the Ringhorn structure. In the Ringhorn structure, the BCU is also the base of the chalk and represents the overall top of the Lower Jurassic reservoir interval. The primary objective for 25/8-12 S was Lower Jurassic. Paleocene Hermod sands was a secondary target.

Operations and results

Appraisal well 25/8-12 S was spudded with the semi-submersible installation "Mærsk Jutlander" on 29 May 1999 and drilled to TD at 2096 m in the Triassic Smith Bank Formation. The well was drilled with sea water down to 990 m and with oil based mud ("Environment") from 990 m to TD. Top Hermod sands were encountered at 1785.1 m. They consisted of an upper thin sand and a lower massive sand. Several pressure points within the sands confirm a water gradient in the main sand (1790-1803 m). Elevated resistivity indicates hydrocarbons in the interval from 1787-1789 m (1756 - 1758 m TVD SS). Top Statfjord Formation was found at 1905.9 m. MDT data and other open-hole wireline data confirm oil down to (ODT) 1947 m (1914 m TVD SS), and water up to (WUT) 1959 m (1926 m TVD SS). This is consistent with the OWC of 1917.5 m TVD SS established in the 25/8-11 where it was penetrated within a massive sand. Seven MDT oil samples were collected at 1923 m, within the main Jurassic sand reservoir. Pressure was 187.5 bars and temperature (measured, not static) ranged from 80.2 deg C to 80.5 deg C during the sampling. One core was cut from 1905 m to 1941 m in the Statfjord Formation. Well 25/8-12 S was permanently plugged back to the 9 5/8" casing at 984 m on June 8 1999 for sidetrack 25/8-12 A. It is classified 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]
1000.00	2096.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate



Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1905.0	1938.8	[m]

Total core sample length [m]	33.8
Cores available for sampling?	YES

Core photos

1905-1910m



1910-1915m



1915-1920m



1920-1925m



1925-1930m



1930-1935m



1935-1939m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1905.0	[m]	DC	RRI
1912.0	[m]	DC	RRI
1943.0	[m]	DC	RRI
1955.0	[m]	DC	RRI
1979.0	[m]	DC	RRI
1990.0	[m]	DC	RRI
2010.0	[m]	DC	RRI
2030.0	[m]	DC	RRI
2050.0	[m]	DC	RRI

Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
150	NORDLAND GP
560	UTSIRA FM
672	NO FORMAL NAME
728	HORDALAND GP
728	SKADE FM
954	NO FORMAL NAME
1150	GRID FM
1159	NO FORMAL NAME
1699	ROGALAND GP
1699	BALDER FM
1766	SELE FM
1785	HERMOD FM
1788	SELE FM
1789	HERMOD FM
1802	SELE FM
1839	LISTA FM
1880	VÅLE FM
1884	SHETLAND GP
1906	STATFJORD GP
2040	NO GROUP DEFINED
2040	SMITH BANK FM

Composite logs

Document name	Document format	Document size [MB]
3771	pdf	0.38

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AITH IPLT DSI	986	2099
CMR GR	1690	2040
MDT GR	0	0
MWD LWD - DIR	153	213
MWD LWD - DIR EWR-4 DGR	213	990
MWD LWD - DIR EWR-4 DGR	990	2096





VSP	505	2080
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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	211.0	36	213.0	0.00	LOT
INTERM.	9 5/8	984.0	12 1/4	990.0	0.00	LOT
OPEN HOLE		2096.0	8 1/2	2096.0	1.62	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
860	1.33	30.0		OIL (ENVIRON)	
1385	1.32	28.0		OIL (ENVIRON)	
1905	1.32	31.0		OIL (REGULAR)	
2096	1.32	25.0		OIL (ENVIRON)	

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]
3771 Formation pressure (Formasjonstrykk)	pdf	0.20

