



General information

Wellbore name	25/8-11
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	BALDER
Discovery	25/8-11 Ringhorne
Well name	25/8-11
Seismic location	ES9403 3D- INLINE 3824 & X-LINE 2313
Production licence	027
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	909-L
Drilling facility	WEST ALPHA
Drilling days	48
Entered date	16.10.1997
Completed date	02.12.1997
Release date	02.12.1999
Publication date	18.12.2002
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
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]	18.0
Water depth [m]	128.0
Total depth (MD) [m RKB]	1994.0
Final vertical depth (TVD) [m RKB]	1994.0
Maximum inclination [°]	2.97
Bottom hole temperature [°C]	82
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	59° 18' 7" N



EW degrees	2° 26' 51" E
NS UTM [m]	6573957.14
EW UTM [m]	468534.61
UTM zone	31
NPDID wellbore	3209

Wellbore history

General

The 25/8-11 well was drilled in PL 027 with Esso as the operator and sole licensee. The well was drilled in the Ringhorn prospect, which is located approximately 14 km North of Balder. The primary target was the Paleocene Hermod Formation sandstones. Jurassic sandstones constituted a secondary target.

Operations and results

Wildcat well 25/8-11 was spudded with the semi-submersible drilling rig "West Alpha" on 16 October 1997 and drilled to a total depth of 1994 m in Early Jurassic sediments of the Statfjord Formation. The well was drilled with spud mud down to 1001 m and oil-based mud from 1001 m to TD. Hydrocarbons were encountered in both targets. Top Hermod sandstones were found at 1765 m. The Paleocene OWC (from wire line log) was found at 1775 m. The Paleocene reservoir properties were close to those of the Balder reservoirs and it was not the plan to test this reservoir. The top of the Jurassic reservoir (Top Statfjord Formation) came in at 1891 m. The Jurassic OWC (from wire line log) was found at 1935 m. The discovery in the Jurassic was the first of its kind in this area and it was therefore decided to test this part of the Ringhorn Discovery. One core was cut in the interval 1763 m to 1790 m from lowermost Sele Formation and through half of the Hermod Formation. Two MDT samples were taken in the Statfjord Formation: one oil sample from 1919 m and one water sample from 1938 m. After production testing the well was suspended as an oil discovery on 2 December 1997.

Testing

A DST was performed in the interval 1892.5 m to 1909.5 m in thin sands of the Upper Statfjord Formation. The well produced 517 Sm3 oil per day and with a GOR of 42 Sm3/Sm3 on a 40/64th inch choke. Only surface samples were collected. Initial reservoir conditions at 1882 m were found to be 18.74 Mpa and 78 deg C. The plan was to continue with the test by perforating a lower sand interval and do a commingled test of both sand intervals. Due to bad weather this was delayed and when the weather improved technical problems lead to suspension of the test without any data obtained from the lower interval.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1030.00	1994.50
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	1763.0	1789.7	[m]

Total core sample length [m]	26.7
Cores available for sampling?	YES

Core photos



1763-1768m



1768-1773m



1773-1778m



1778-1783m



1783-1788m



1788-1790m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1030.0	[m]	DC	CGG
1060.0	[m]	DC	CGG
1120.0	[m]	DC	CGG
1140.0	[m]	DC	CGG
1150.0	[m]	DC	CGG
1180.0	[m]	DC	CGG
1220.0	[m]	DC	CGG
1260.0	[m]	DC	CGG
1280.0	[m]	DC	CGG
1290.0	[m]	DC	CGG
1300.0	[m]	DC	CGG



1310.0 [m]	DC	CGG
1320.0 [m]	DC	CGG
1330.0 [m]	DC	CGG
1340.0 [m]	DC	CGG
1350.0 [m]	DC	CGG
1460.0 [m]	DC	CGG
1580.0 [m]	DC	CGG
1670.0 [m]	DC	CGG
1680.0 [m]	DC	CGG
1745.0 [m]	DC	CGG
1750.0 [m]	DC	CGG
1770.6 [m]	C	CGG
1773.3 [m]	C	CGG
1778.2 [m]	C	CGG
1786.0 [m]	C	CGG
1810.0 [m]	DC	CGG
1820.0 [m]	DC	CGG
1830.0 [m]	DC	CGG
1850.0 [m]	DC	CGG
1870.0 [m]	DC	CGG
1900.0 [m]	DC	RRI
1920.0 [m]	DC	RRI
1970.0 [m]	DC	RRI

Oil samples at the Norwegian Offshore Directorate

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
DST	DST 1	1910.00	1893.00		15.11.1997 - 00:00	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
146	NORDLAND GP
555	UTSIRA FM
651	NO FORMAL NAME
708	HORDALAND GP



708	SKADE FM
861	UNDIFFERENTIATED
943	NO FORMAL NAME
978	UNDIFFERENTIATED
1129	GRID FM
1138	NO FORMAL NAME
1678	ROGALAND GP
1678	BALDER FM
1743	SELE FM
1765	HERMOD FM
1768	SELE FM
1774	HERMOD FM
1796	SELE FM
1824	LISTA FM
1872	VÅLE FM
1876	SHETLAND GP
1876	EKOFISK FM
1891	STATFJORD GP

Composite logs

Document name	Document format	Document size [MB]
3209	pdf	0.32

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

Document name	Document format	Document size [MB]
3209_25_8_11_COMPLETION_REPORT	pdf	49.47

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	1893	1910	16.0





Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				78

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0	520	23000			44

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT UBI DSI	992	1986
CMR IPL	1671	1990
LDL CNL GR	1578	1995
MDT	1766	1981
MWD - DIR	920	998
MWD - GR RES DIR	219	1001
MWD - GR RES DIR	1024	1994
SWC	1678	1985
VSP	350	1990

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	220.0	36	221.0	0.00	LOT
INTERM.	13 3/8	998.0	17 1/2	1008.0	0.00	LOT
OPEN HOLE		1994.0	8 1/2	1994.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1001	1.32	24.0		OIL BASED	
1024	1.32	26.0		OIL BASED	
1471	1.32	20.0		OIL BASED	
1565	1.32	25.0		OIL BASED	



1790	1.33	26.0	OIL BASED	
1994	1.13		DUMMY	
1994	1.32	26.0	OIL BASED	

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]
3209 Formation pressure (Formasjonstrykk)	pdf	0.19

