



General information

Wellbore name	25/10-1 R
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	25/10-1
Seismic location	LINE SC 70-shotpoint 136
Production licence	028
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	32-L2
Drilling facility	GLOMAR GRAND ISLE
Drilling days	27
Entered date	09.07.1970
Completed date	03.08.1970
Plugged and abandon date	03.08.1970
Release date	03.08.1972
Publication date	26.05.2009
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	DRILLING/PLUGGING
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	10.0
Water depth [m]	124.0
Total depth (MD) [m RKB]	2091.0
Final vertical depth (TVD) [m RKB]	2091.0
Maximum inclination [°]	6
Bottom hole temperature [°C]	76
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	59° 11' 21.72" N
EW degrees	2° 19' 11.83" E
NS UTM [m]	6561488.14



EW UTM [m]	461142.95
UTM zone	31
NPDID wellbore	512

Wellbore history

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General

Well 25/10-1 R is a re-entry of well 25/10-1, which found strong shows in thin Early Eocene sands, but was suspended at top Paleocene level due to heavy autumn storms. The purpose of the re-entry was to test the Early Eocene sands and to extend the well into deeper Paleocene sands, which were anticipated to be oil-bearing.

Operations and results

Appraisal well 25/10-1 was re-entered (25/10-1 R) with the vessel Glomar Grand Isle on 9 July 1970. The re-entry well was kicked off at 1664 m in 25/10-1 and drilled to final TD at 2091 m in the Early Jurassic Statfjord Formation. No significant problems were encountered in the operations. The well was drilled with seawater/spersene XP-20, Splinex mud from kick-off to TD.

From kick-off down to 1747 m the well drilled the same lithology as the primary well. The underlying Paleocene section was composed of sands and shales, with the sand bed thicknesses ranging from about 4 to 40 m. These Paleocene sands were highly porous and permeable, but only the top 5 m had good oil shows and this section produced water only on wire line formation test. The Paleocene section rested directly on the Early Jurassic Statfjord Formation. Sands within the Statfjord Formation were of reservoir quality, but were water-wet with only streaks of non-fluorescing dead oil.

The section from 1731 to 1804.1 m was cored all through in five cores, with near 100% total recovery. The upper two of these (core #9 and #10) were partially overlapping with the lower three cores (core #6, #7, and #8) in well 25/10-1. A total of twelve wire line FIT samples were attempted and five of them were reported to contain formation fluid. FIT no 1 and 2 were taken in the Paleocene sands (Heimdal Formation) at 1789.2 m and 1778.2 m. These recovered only water and mud. The remaining successful FIT recovered hydrocarbons: FIT no 4 at 1760.8 m (Heimdal Formation) recovered gas and 4800 cm³ oil, FIT no 6 at 1762.4 m (Heimdal Formation) recovered gas and 8250 cm³ oil, while FIT no 7 at 1701.4 m (Balder Formation) recovered about 1000 cm³ oil and oil-cut mud.

The well was permanently abandoned on 3 August 1970. It is classified as a well with shows.

Testing

No drill stem test was performed.

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	5480.0	5517.0	[ft]



2	5517.0	5549.0	[ft]
3	5550.0	5605.0	[ft]
4	5605.0	5645.0	[ft]
5	5645.0	5688.0	[ft]
6	5688.0	5705.0	[ft]
7	5705.0	5719.0	[ft]
8	5719.0	5733.0	[ft]
9	5680.0	5714.0	[ft]
10	5725.0	5756.0	[ft]
11	5767.0	5797.0	[ft]
12	5799.0	5859.0	[ft]
13	5859.0	5919.0	[ft]

Total core sample length [m]	142.3
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
134	NORDLAND GP
555	UTSIRA FM
675	NO FORMAL NAME
733	HORDALAND GP
733	SKADE FM
1045	NO FORMAL NAME
1192	NO FORMAL NAME
1247	NO FORMAL NAME
1682	ROGALAND GP
1682	BALDER FM
1699	INTRA BALDER FM SS
1705	BALDER FM
1717	SELE FM
1730	HERMOD FM
1745	SELE FM
1756	HERMOD FM
1762	SELE FM
1763	LISTA FM
1775	HEIMDAL FM
1800	LISTA FM



1804	HEIMDAL FM
1844	LISTA FM
1859	HEIMDAL FM
1901	LISTA FM
1911	HEIMDAL FM
1916	LISTA FM
1928	HEIMDAL FM
1932	LISTA FM
1960	SHETLAND GP
1960	EKOFISK FM
1963	STATFJORD GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DIP	1645	2090
FDC	1369	2090
IEL	1645	2090
MLL CAL	1369	2090
SON BHC GR	1368	2090

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
OPEN HOLE		2092.0	8 1/2	2092.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
2092	0.00			spersen/wat	