General information

Wellbore name	1/2-2
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	1/2-2
Seismic location	inline 7429-trace 4824 Survey PGS CGMNOR
Production licence	143 CS
Drilling operator	Paladin Resources Norge AS
Drill permit	1103-L
Drilling facility	MÆRSK GIANT
Drilling days	51
Entered date	14.12.2005
Completed date	02.02.2006
Release date	02.02.2008
Publication date	15.08.2008
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	40.0
Water depth [m]	74.0
Total depth (MD) [m RKB]	3434.0
Final vertical depth (TVD) [m RKB]	3432.0
Maximum inclination [°]	4.9
Bottom hole temperature [°C]	138
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	56° 59' 32'' N
EW degrees	2° 29' 47.66'' E
NS UTM [m]	6316774.33
EW UTM [m]	469410.10
UTM zone	31
NPDID wellbore	5192

Wellbore history

The 1/2-2 well was drilled to evaluate the prospect named Hummer, located in the Central Graben in the North Sea ca 4.5 km east of the UK border. The prospect was a relatively simple four-way dip closure structure, with the primary target being the Palaeocene Forties Sandstone Member of the Sele Formation. There was a secondary target in the underlying Mey Sandstone Member of the Lista Formation. The Hummer prospect was located between several proven hydrocarbon accumulations in the Forties Sandstone, including the Blane oil discovery in PL 143BS, approximately 11 km to the south, the 7/11-3 gas condensate discovery on the flank of the Cod Field, 5 km to the North, and the Olselvar gas condensate discovery 12 km to the east in Block 1/3.

Operations and results

Well 1/2-2 was spudded with the jack-up installation Mærsk Giant on 14 December 2005 and drilled to TD at 3434 m in the Paleocene Ekofisk Formation. There were no serious technical problems in the operations, but due mainly to hole problems and WOW the well was completed ca 15 days after schedule. The well was drilled with seawater and pre-hydrated bentonite sweeps down to703 m, with Performadrill KCl mud from 703 m to 1507 m, and with Enviromul oil based mud from 1507 m to TD.

A Forties reservoir was penetrated at 3135 m, +3m low from the prognosis. No hydrocarbons were encountered, but oil shows were recorded in the upper part of the Forties Formation and in a sandstone stringer further down in the Lista Formation.

A 46 m core (4") was cut in the Forties sandstone Member, from 3141.5 m to 3187.5 m. The core recovery was 98% (44.9 m). Wire line logging was according to dry hole case with no wire line fluid samples taken.

The well was permanently abandoned on 2 February 2006 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
200.00	3434.00

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	3141.5	3186.4	[m]

Total core sample length [m]	44.9

Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
114	NORDLAND GP
1675	HORDALAND GP
3077	ROGALAND GP
3077	BALDER FM
3094	SELE FM
3135	FORTIES FM
3296	LISTA FM
3368	MAUREEN FM
3418	SHETLAND GP
3418	EKOFISK FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT DSI PEX NGT	1496	3415
CHECKSHOT	624	3380
MWD LWD - DGR EWR P4 DIR PWD	176	3434

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	173.0	36	176.0	0.00	LOT
SURF.COND.	20	697.0	24	703.0	1.61	LOT
INTERM.	13 3/8	1497.0	17 1/2	1507.0	1.81	LOT
OPEN HOLE		3434.0	8 1/2	3434.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
130	1.55	88.0		OIL BASED	
176	1.50			WATER BASED	
466	1.12	31.0		WATER BASED	
703	1.14			WATER BASED	
1377	1.55	88.0		OIL BASED	
1492	1.55	85.0		WATER BASED	
1707	1.54			OIL BASED	
2838	1.54			OIL BASED	
2960	1.58	85.0		OIL BASED	
3434	1.58	76.0		OIL BASED	