



General information

Wellbore name	7/7-4
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	7/7-4
Seismic location	Line D3 & Line D28
Production licence	335
Drilling operator	BG Norge AS
Drill permit	1147-L
Drilling facility	MÆRSK GUARDIAN
Drilling days	53
Entered date	29.08.2007
Completed date	20.10.2007
Release date	20.10.2009
Publication date	20.10.2009
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	43.0
Water depth [m]	81.0
Total depth (MD) [m RKB]	3054.0
Final vertical depth (TVD) [m RKB]	3034.0
Maximum inclination [°]	10.9
Bottom hole temperature [°C]	139
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	57° 22' 37.81" N
EW degrees	2° 16' 4.1" E
NS UTM [m]	6359752.14
EW UTM [m]	455970.01
UTM zone	31
NPDID wellbore	5570



Wellbore history

General

Well 7/7-4 was drilled on the Orange prospect on the Jæren High in the North Sea; about one km from the UK border. The purpose of the well was to prove hydrocarbons in the Paleocene Forties sandstone unit.

Operations and results

Well 7/7-4 was spudded with the jack-up installation Mærsk Guardian on 29 August 2007 and drilled to TD at 3054 m (3034 m TVD) in the Paleocene Ekofisk Formation. There were some shallow geo-hazards within the survey area, and the chosen well location was free from identified geo-hazard risks. This resulted in a slight directional nudge at 1350 m in the 12.1/4" section required to place the well vertical before top reservoir. The well was drilled with sea water down to 231 m, with Seawater/PHB/PAC pills from 231 m to 633 m, with KCl/glycol mud from 633 m to 1172 m, and with Carbo-Sea OBM from 1172 m to TD. Various technical problems resulted in nearly 20 days more rig time than planned for this well.

The Orange prospect well found 129 m of the expected inter-bedded sand and shale sequence of the Forties Formation, but water wet through the entire section. No shows were reported from the well. Top of the Formation was at 2820 m.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 20 October 2007 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]
640.00	3054.30

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
124	NORDLAND GP
1309	HORDALAND GP
2706	ROGALAND GP
2706	BALDER FM



2746	SELE FM
2820	FORTIES FM
2949	LISTA FM
2971	VÅLE FM
3008	SHETLAND GP
3008	EKOFISK FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DUAL ASR&GR +500CM3 AIRGUN ARRAY	2765	8
DUAL ASR&GR +500CM3 AIRGUN ARRAY	3025	2625
MWD LWD - DIR	124	227
MWD LWD - DIR	227	633
MWD LWD - DIR GR RES	231	633
MWD LWD - DIR GR RES PWD	633	3054
ORIT TTRM GR CN ZDL HDIL XMAC F1	3006	0
ORIT TTRM GR HDIL XMAC F1	3037	8

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	218.0	36	223.0	0.00	LOT
SURF.COND.	20	620.0	24	625.0	1.49	LOT
INTERM.	13 3/8	1164.0	17 1/2	1175.0	1.66	LOT
OPEN HOLE		3054.0	12 1/4	3054.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
227	0.00	13.0		SPUD MUD	
444	0.00	30.0		SPUD MUD	
633	0.00	19.0		SPUD MUD	
1104	0.00	31.0		SPUD MUD	



1172	0.00	17.0		KCL/POLY/GLYCOL	
1194	0.00	44.0		CARBOSEA	
1462	0.00	15.0		SPUD MUD	
1791	0.00	46.0		CARBOSEA	
2717	0.00	35.0		CARBOSEA	
3054	0.00	29.0		SPUD MUD	