General information

Wellbore name	9/3-2
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	9/3-2
Seismic location	inline 28406 & trace 325 -survey ST9702
Production licence	316
Drilling operator	Paladin Resources Norge AS
Drill permit	1100-L
Drilling facility	MÆRSK GIANT
Drilling days	48
Entered date	23.10.2005
Completed date	09.12.2005
Release date	09.12.2007
Publication date	28.02.2008
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	46.0
Water depth [m]	101.0
Total depth (MD) [m RKB]	3154.0
Final vertical depth (TVD) [m RKB]	3151.0
Maximum inclination [°]	5
Bottom hole temperature [°C]	92
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	57° 49' 25.79'' N
EW degrees	4° 42' 39.64'' E
NS UTM [m]	6410526.83
EW UTM [m]	601631.24
UTM zone	31
NPDID wellbore	5173

Wellbore history

General

Wildcat well 9/3-2 is located east in the Egersund Basin in the North Sea.The well was drilled as part of the Production License 316. PL 316 is a stratigraphic license that applies to all levels from 200 meter below base Jurassic and up to seafloor where Triassic is present, and all levels over base Jurassic where Triassic is not present. The main objective was to determine the presence of commercial volumes of hydrocarbons within the Sandnes formation of the Aimee prospect, which straddles Blocks 9/3 and 9/2. A secondary objective was to acquire reservoir pressure data and geological data, to improve reservoir understanding for any future field development.

Operations and results

Well 9/3-2 was spudded with the jack-up installation Mærsk Giant on 23 October 2005 and drilled to TD at 3154 m in the Late Triassic Skagerrak Formation. Operations took significantly longer time than planned due mainly to bad weather and open hole problems. The well was drilled with seawater down to 219 m, with seawater/KCl mud from 219 m to 507 m, with seawater only again from 507 m to 1149 m, and with "Enviromul" oil based mud from 1149 m to TD.

There were no sand development above Jurassic level. At 1970 m the well encountered a 690 m thick Late Jurassic Boknfjord Group described mainly as claystone, including a 104 m thick Tau Formation with top at 2503 m. The Sandnes Formation reservoir was penetrated at 2660 m (2612.6 m TVD SS), 29.4 m high from the prognosis, however no hydrocarbons were encountered. The Sandnes Formation had a gross interval of 117.6 m and a net interval of 81.84 m, with a net/gross of 0.69. Water wet Bryne reservoir was also encountered, at 2777.9 m (2730.2 m TVD SS). It had a gross interval of 290.02 m with a net interval of 71.93 m, giving a net/gross of 0.25. There were no shows in the well other than a very slow pale milky white cut, with a pale white residual in the Bryne Formation between 2810 - 2830 m, thought to relate to carbonaceous material.

No cores were cut in the well and no wire line fluid samples were taken. The check shot survey was cancelled due to high winds. A MDT run had been planned but was also cancelled. There was only one wire line run to reach TD with thermometers. The bottom hole temperatures from the maximum reading thermometers were: 92, 92 and 92ºC.

The well was permanently abandoned on 9 December 2005 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]
240.00	3154.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
147	NORDLAND GP
414	HORDALAND GP
566	ROGALAND GP
566	BALDER FM
588	SELE FM
598	LISTA FM
619	MAUREEN FM
624	SHETLAND GP
624	EKOFISK FM
665	TOR FM
910	HOD FM
1069	CROMER KNOLL GP
1069	SOLA FM
1162	ÅSGARD FM
1970	BOKNFJORD GP
1970	FLEKKEFJORD FM
2072	SAUDA FM
2503	TAU FM
2607	EGERSUND FM
2660	VESTLAND GP
2660	SANDNES FM
2778	BRYNE FM
3068	NO GROUP DEFINED
3068	FJERRITSLEV FM
3118	NO GROUP DEFINED
3118	SKAGERRAK FM

Composite logs

Document name	Document format	Document size [MB]
5173	pdf	0.46

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DGR EWR P4 DIR PWD	211	3154
PEX DSI AIT	1144	3156

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	219.0	0.00	LOT
SURF.COND.	20	501.0	24	507.0	0.00	LOT
INTERM.	13 3/8	1144.0	17 1/2	1149.0	1.68	LOT
OPEN HOLE		3154.0	8 1/2	3154.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
365	1.00			WATER BASED	
507	1.03			WATER BASED	
1130	1.10			WATER BASED	
1152	1.30			OIL BASED	
1920	1.30	83.0		OIL BASED	
2065	1.30	75.0		OIL BASED	
2891	1.35	62.0		OIL BASED	
3035	1.35	57.0		OIL BASED	
3154	1.35	60.0		OIL BASED	