

**General information**

Wellbore name	16/3-3
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	16/3-3
Seismic location	ES 89 - 111 SP. 185
Production licence	149
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	612-L
Drilling facility	VILDKAT EXPLORER
Drilling days	14
Entered date	24.07.1989
Completed date	06.08.1989
Release date	06.08.1991
Publication date	19.10.2006
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	28.0
Water depth [m]	119.0
Total depth (MD) [m RKB]	1566.0
Bottom hole temperature [°C]	61
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	TOR FM
Geodetic datum	ED50
NS degrees	58° 49' 44.79" N
EW degrees	2° 58' 21.84" E
NS UTM [m]	6521173.68
EW UTM [m]	498425.63
UTM zone	31
NPDID wellbore	1415

**Wellbore history****General**

Well 16/3-3 is located on the eastern margin of the Utsira High in the North Sea. The primary objective of the well was to test the reservoir and hydrocarbon potential of the Paleocene Heimdal sands in the Havørn Prospect. The prospect sands pinches out to the east and south combined with a structural dip to the northwest. The source kitchen was expected to be the Late Jurassic Draupne Formation in the Southern Viking Graben. Top seal for the sands were prognosed to be the Late Paleocene- and the Eocene marine shales.

Operations and results

Wildcat well 16/3-3 was spudded with the semi-submersible installation Vildkat Explorer on 24 July 1989 and drilled to TD at 1566 m in the Late Cretaceous Tor Formation. No significant problems occurred during the operations. The well was drilled with seawater down to 445 m and with lignosulphonate/seawater and gel from 445 m to TD.

Late Cretaceous rocks were encountered at 1488 m, underlying 1341 meters of Cenozoic claystones. The Late Cretaceous sediments (+ 78 m) consisted of white-creamy chalk. The Heimdal Formation sands were absent. No reservoir intervals were penetrated. No shows were recorded.

No cores were cut and no fluid samples taken in this well.

The well was permanently abandoned on 6 August 1989 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]
460.00	1566.00

Cuttings available for sampling?	YES
----------------------------------	-----

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
460.0	[m]	DC	
520.0	[m]	DC	
550.0	[m]	DC	
580.0	[m]	DC	
610.0	[m]	DC	
640.0	[m]	DC	
670.0	[m]	DC	
1025.1	[m]	SWC	



1025.1 [m]	SWC	STRATLAB
1100.0 [m]	DC	STRATLAB
1110.0 [m]	DC	STRATLAB
1120.0 [m]	DC	STRATL
1130.0 [m]	DC	STRATL
1140.0 [m]	DC	STRATL
1152.0 [m]	SWC	
1163.1 [m]	SWC	
1163.1 [m]	SWC	STRATLAB
1170.0 [m]	DC	STRATL
1180.0 [m]	DC	STRATL
1190.0 [m]	DC	STRATL
1196.0 [m]	SWC	STRATL
1196.0 [m]	SWC	
1200.0 [m]	DC	STRATLAB
1210.0 [m]	DC	STRATL
1220.0 [m]	DC	STRATL
1230.0 [m]	DC	STRATL
1240.0 [m]	DC	STRATL
1247.0 [m]	SWC	STRATL
1247.0 [m]	SWC	
1257.0 [m]	SWC	
1257.0 [m]	SWC	STRATLAB
1266.0 [m]	SWC	
1280.0 [m]	DC	STRATLAB
1287.0 [m]	SWC	STRATL
1287.0 [m]	SWC	
1296.0 [m]	SWC	
1296.0 [m]	SWC	STRATLAB
1300.0 [m]	DC	STRATL
1311.1 [m]	SWC	STRATL
1311.1 [m]	SWC	
1320.0 [m]	DC	STRATLAB
1325.0 [m]	DC	STRATL
1330.0 [m]	DC	STRATL
1340.0 [m]	DC	STRATL
1346.0 [m]	SWC	
1346.0 [m]	SWC	STRATLAB
1366.1 [m]	SWC	STRATL
1366.1 [m]	SWC	



1371.1 [m]	SWC	
1371.1 [m]	SWC	STRATLAB
1374.0 [m]	SWC	STRATL
1374.0 [m]	SWC	
1378.0 [m]	SWC	
1378.0 [m]	SWC	STRATLAB
1393.0 [m]	SWC	STRATL
1393.0 [m]	SWC	
1400.0 [m]	DC	STRATLAB
1407.0 [m]	SWC	STRATL
1407.0 [m]	SWC	
1423.0 [m]	SWC	STRATLAB
1433.0 [m]	SWC	STRATL
1433.0 [m]	SWC	
1441.5 [m]	SWC	
1441.5 [m]	SWC	STRATLAB
1447.1 [m]	SWC	STRATL
1447.1 [m]	SWC	
1454.6 [m]	SWC	
1454.6 [m]	SWC	STRATLAB
1464.0 [m]	SWC	STRATL
1464.0 [m]	SWC	
1468.1 [m]	SWC	
1468.1 [m]	SWC	STRATLAB
1474.0 [m]	SWC	STRATL
1474.0 [m]	SWC	
1482.0 [m]	SWC	
1482.0 [m]	SWC	STRATLAB
1495.0 [m]	SWC	
1495.2 [m]	SWC	STRATLAB
1510.0 [m]	SWC	
1510.0 [m]	SWC	STRATLAB
1520.0 [m]	DC	STRATL
1530.0 [m]	DC	STRATL
1540.0 [m]	DC	STRATL
1550.0 [m]	DC	STRATL
1566.0 [m]	DC	STRATL

Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
147	NORDLAND GP
777	HORDALAND GP
1307	ROGALAND GP
1307	BALDER FM
1344	SELE FM
1376	LISTA FM
1475	VÅLE FM
1488	SHETLAND GP
1488	TOR FM

Composite logs

Document name	Document format	Document size [MB]
1415	pdf	0.22

Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

Document name	Document format	Document size [MB]
1415 01 WDSS General Information	pdf	0.20
1415 02 WDSS completion log	pdf	0.11

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

Document name	Document format	Document size [MB]
1415 16 3 3 COMPLETION LOG	pdf	0.81
1415 16 3 3 COMPLETION REPORT	pdf	11.80

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL GR	342	779
DIL GR LSS SP MSFL	439	1566
LDT CNL GR NGT	1002	1544





MWD	190	1010
SWC	1067	1510
VELOCITY	968	1488

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	181.0	36	181.0	0.00	LOT
INTERM.	13 3/8	441.0	17 1/2	455.0	1.77	LOT
INTERM.	9 5/8	1003.0	12 1/4	1010.0	1.77	LOT
OPEN HOLE		1566.0	8 1/2	1566.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
181	1.03	1.0		WATER BASED	27.07.1989
225	1.03	1.0		WATER BASED	28.07.1989
315	1.15	13.0	7.7	WATER BASED	07.08.1989
455	1.03	1.0		WATER BASED	28.07.1989
455	1.03	1.0		WATER BASED	28.07.1989
509	1.12	16.0	8.1	WATER BASED	31.07.1989
887	1.16	23.0	8.6	WATER BASED	04.08.1989
1010	1.15	11.0	8.1	WATER BASED	31.07.1989
1010	1.15	10.0	13.4	WATER BASED	31.07.1989
1187	1.16	15.0	7.2	WATER BASED	01.08.1989
1531	1.16	21.0	8.6	WATER BASED	02.08.1989
1566	1.16	20.0	7.2	WATER BASED	03.08.1989