

**General information**

Wellbore name	2/6-3
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/6-3
Seismic location	8180 223 SP 84.5 & 980 401 SP 267
Production licence	008
Drilling operator	Elf Petroleum Norge AS
Drill permit	352-L
Drilling facility	BYFORD DOLPHIN
Drilling days	109
Entered date	09.11.1982
Completed date	25.02.1983
Release date	25.02.1985
Publication date	09.03.2009
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	71.0
Total depth (MD) [m RKB]	4060.0
Final vertical depth (TVD) [m RKB]	4060.0
Bottom hole temperature [°C]	134
Oldest penetrated age	PRE-DEVONIAN
Oldest penetrated formation	BASEMENT
Geodetic datum	ED50
NS degrees	56° 31' 49.32" N
EW degrees	3° 49' 25.38" E
NS UTM [m]	6265553.75
EW UTM [m]	550669.46
UTM zone	31
NPDID wellbore	64

**Wellbore history****General**

Well 2/6-3 is located on the north western flank of the Mandal High between the Søgne Basin and the Central Graben in the North Sea. It was drilled to test possible hydrocarbon accumulations in Late and Middle Jurassic sandstones. A third objective was to reconnoitre below base Permian.

Operations and results

Wildcat well 2/6-3 was spudded with the semi-submersible installation Byford Dolphin on 9 November 1982 and drilled to TD at 4060 m, 270 meter into pre-Late Devonian basement rock. Technical problems occurred in the 12 1/4" section due to twist-off of Kelly saver, loss of 2700 m logging cable in hole, and 9 5/8" casing hanger collapse, causing a total of 203 hrs lost time. In the 8 1/2" section an anchor chain parted during a storm and four days were lost waiting on weather and re-anchoring. The well was drilled with water based mud.

In the Late Jurassic only marine shales were encountered. At 3545 m, 200 m higher than prognosed a Middle Jurassic, fluvial sandstone of Bajocian age (Bryne Formation) was found water bearing. A sequence of anhydrite, dolomite and pure anhydrite was found below the Triassic red-shales, but no salt or Rotliegendes reservoir rocks were encountered. The Permian anhydrite was followed by a series of slated shales and phyllitic rocks, getting progressively more and more deformed, and with an introduction of metamorphism towards TD. Rb-Sr dating on 1-micron fraction material from 3875 m gave an age of 376 Ma in the Late Devonian. No oil shows were reported from the well. Background gas was recorded down to top Permian. No gas was recorded below top Permian.

Three cores were cut. K1 was cut at 3551 - 3560 m in Bryne Formation sandstone with 85% recovery. K2 was cut at 3886 - 3895 m in basement rock with 11% recovery (one meter, presumed to be from the top of the interval), and K3 was cut in basement at TD with 58% recovery. RFT pressure points were obtained but no wire line fluid samples were taken.

The well was permanently abandoned on 25 February 1983 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]
180.00	4053.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate



Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3551.0	3558.7	[m]
2	3886.0	3887.0	[m]
3	4053.0	4056.9	[m]

Total core sample length [m]	12.6
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
3455.0	[m]	DC	HRS
3470.0	[m]	DC	HRS
3485.0	[m]	DC	HRS
3500.0	[m]	DC	HRS
3515.0	[m]	DC	HRS
3530.0	[m]	DC	HRS
3545.0	[m]	DC	HRS
3565.0	[m]	DC	HRS
3580.0	[m]	DC	HRS
3595.0	[m]	DC	HRS
3610.0	[m]	DC	HRS
3625.0	[m]	DC	HRS
3640.0	[m]	DC	HRS
3665.0	[m]	DC	TNO
3690.0	[m]	DC	TNO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
96	NORDLAND GP
1530	HORDALAND GP
2818	ROGALAND GP
2818	BALDER FM
2827	SELE FM
2870	LISTA FM
2918	VÅLE FM
2940	SHETLAND GP



2940	EKOFISK FM
3020	TOR FM
3225	HOD FM
3391	TYNE GP
3391	MANDAL FM
3427	FARSUND FM
3545	VESTLAND GP
3545	BRYNE FM
3638	NO GROUP DEFINED
3638	SMITH BANK FM
3729	ZECHSTEIN GP
3790	NO FORMAL NAME
3918	BASEMENT

Composite logs

Document name	Document format	Document size [MB]
64	pdf	0.73

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

Document name	Document format	Document size [MB]
64 01 WDSS General Information	pdf	0.16
64 02 WDSS completion log	pdf	0.34

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

Document name	Document format	Document size [MB]
64 01 2 6 3 Completion Report Geological	pdf	16.00
64 02 2 6 3 Completion log	pdf	1.97

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL	91	2497





CST GR	2505	3443
CST GR	3452	4025
CST GR	3464	3850
HDT	2417	3450
HDT	3437	4062
ISF SLS GR	157	4061
LDL CAL GR	157	2503
LDL CNL CAL GR	2417	4062
NGS	3437	4052
RFT	3602	3548
VELOCITY	840	3889

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	155.0	36	0.0	0.00	LOT
SURF.COND.	20	793.0	26	803.0	1.75	LOT
INTERM.	13 3/8	2494.0	17 1/2	2504.0	1.70	LOT
INTERM.	9 5/8	3435.0	12 1/4	3449.0	1.95	LOT
LINER	7	3910.0	8 1/2	4060.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
100	1.06			waterbased	
350	1.11			waterbased	
820	1.14			waterbased	
1350	1.18			waterbased	
1700	1.24			waterbased	
2545	1.34			waterbased	
3160	1.52			waterbased	
3520	1.61			waterbased	
3780	1.57			waterbased	

Pressure plots





The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
64 Formation pressure (Formasjonstrykk)	pdf	0.22

