

**General information**

Wellbore name	18/11-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	18/11-1
Seismic location	LINE 72-18-6 SP.12
Production licence	008
Drilling operator	Elf Petroleum Norge AS
Drill permit	104-L
Drilling facility	DEEPSEA DRILLER
Drilling days	43
Entered date	17.02.1974
Completed date	31.03.1974
Release date	31.03.1976
Publication date	25.04.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	116.0
Total depth (MD) [m RKB]	2086.0
Bottom hole temperature [°C]	50
Oldest penetrated age	PRE-DEVONIAN
Oldest penetrated formation	BASEMENT
Geodetic datum	ED50
NS degrees	58° 4' 21.3" N
EW degrees	4° 32' 0.1" E
NS UTM [m]	6437964.92
EW UTM [m]	590452.02
UTM zone	31
NPDID wellbore	343

Wellbore history



General

Well 18/11-1 is located on the Stavanger Platform, ca 25 km north of the Yme Field in the North Sea. The primary objective was to test possible hydrocarbon accumulation in Middle Jurassic sandstones in a seismic structure interpreted on the same trend as the 17/12-1R Bream Discovery. Secondary objectives were possible Triassic or Rotliegendes sandstones in a faulted triangular block tilted southwest. Planned TD was 150 -200 m below the primary target, prognosed at 2365 m.

The well is Reference Well for the Sandnes Formation.

Operations and results

Wildcat well 18/11-1 was spudded with the semi-submersible installation Deepsea Driller on 17 February 1974 and drilled to TD at 2086 m in Pre-Devonian Basement rocks.

Late Cretaceous limestones from 498 m to 985 m had excellent reservoir properties. Limestones below this level became harder; more compacted, and had poor reservoir properties. The well penetrated top Sandnes Formation at 1878 m with fine, argillaceous cemented, well sorted sandstone down to 1919 m, and a Bryne Formation sequence with fine to coarse, angular grained, sandstones with variegated shale from 1964 m to 2060 m. The Jurassic sands rested directly on basement at 2060 m. No noticeable shows were recorded in the well. Organic geochemical analysis proved a thermally immature well all through down to basement (%Ro < 0.36). Good source potential (TOC in the range 1.3 % to 6 % and Hydrogen Index from 30 to 230 mg HC/g rock was seen in a ca 80 m thick Kimmeridgian shale sequence from 1735 m. High TOC in the range 1.3 % up to 6.9 % was seen also below 1919 m in Callovian claystones, but Hydrogen Index in the range 30 - 180 mg HC/g rock suggested a more inertinitic, gas prone kerogen in this sequence.

One conventional core was cut at TD from 2082 m to 2086 m. No fluid samples were taken.

The well was permanently abandoned on 31 March 1974 as dry hole.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
400.00	2080.00

Cuttings available for sampling?	NO
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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	2082.0	2086.0	[m]

Total core sample length [m]	4.0
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Cores available for sampling?	YES
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Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
420.0	[m]	DC	RRI
440.0	[m]	DC	RRI
460.0	[m]	DC	RRI
480.0	[m]	DC	RRI
500.0	[m]	DC	RRI
520.0	[m]	DC	RRI
540.0	[m]	DC	RRI
560.0	[m]	DC	RRI
580.0	[m]	DC	RRI
600.0	[m]	DC	RRI
1895.0	[m]	DC	
1950.0	[m]	DC	
2000.0	[m]	DC	
2050.0	[m]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
141	NORDLAND GP
373	HORDALAND GP
463	ROGALAND GP
463	BALDER FM
486	SELE FM
492	LISTA FM
496	VÅLE FM
498	SHETLAND GP
498	EKOFISK FM
572	TOR FM
860	HOD FM
985	CROMER KNOLL GP
985	RØDBY FM
1135	SOLA FM
1325	ÅSGARD FM



1609	BOKNFJORD GP
1609	FLEKKEFJORD FM
1650	SAUDA FM
1747	TAU FM
1800	EGERSUND FM
1878	VESTLAND GP
1878	SANDNES FM
1964	BRYNE FM
2060	BASEMENT

Composite logs

Document name	Document format	Document size [MB]
343	pdf	0.17

Geochemical information

Document name	Document format	Document size [MB]
343_1	pdf	6.03
343_2	pdf	0.47

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

Document name	Document format	Document size [MB]
343_01_WDSS_General_Information	pdf	0.25

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

Document name	Document format	Document size [MB]
343_01_Geological_report_and_Completion_log	pdf	3.08
343_02_Sidewall_cores_description	pdf	0.59
343_03_Palynological_study_of_the_mesozoic	pdf	2.91





Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC GR	376	819
BHC GR	804	1706
BHC GR	1550	1814
BHC GR	1802	2082
CBL	300	800
CBL	400	1801
FDC GR	1802	2081
GR	141	376
HDT	1802	2082
IES	376	820
IES	804	1814
IES	1802	2082
VELOCITY	376	2081

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	177.0	36	177.0	0.00	LOT
SURF.COND.	20	373.0	26	386.0	0.00	LOT
INTERM.	13 3/8	805.0	17 1/2	823.0	0.00	LOT
INTERM.	9 5/8	1805.0	12 1/4	1815.0	0.00	LOT
OPEN HOLE		2086.0	8 1/2	2086.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
823	1.23	43.0	4.0	waterbased	
1503	1.28	52.0	8.0	waterbased	
1815	1.30	45.0	6.0	waterbased	
2082	1.32	45.0	6.0	waterbased	