

**General information**

Wellbore name	16/3-2
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	16/3-2
Seismic location	
Production licence	007
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	151-L
Drilling facility	POLYGLOMAR DRILLER
Drilling days	27
Entered date	11.02.1976
Completed date	08.03.1976
Release date	08.03.1978
Publication date	19.10.2006
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	24.0
Water depth [m]	118.0
Total depth (MD) [m RKB]	2019.0
Maximum inclination [°]	1.25
Oldest penetrated age	PRE-DEVONIAN
Oldest penetrated formation	BASEMENT
Geodetic datum	ED50
NS degrees	58° 47' 12.8" N
EW degrees	2° 47' 34.7" E
NS UTM [m]	6516490.64
EW UTM [m]	488031.78
UTM zone	31
NPDID wellbore	334

Wellbore history

**General**

Well 16/3-2 was drilled 40 m east of 16/3-1 on the Utsira High in the North Sea. The objectives were to investigate Paleocene sand pinch out, the weathered top of the Cretaceous chalk and Jurassic sandstone. The 16/3-2 well is a replacement for well 16/3-1, which was junked for technical reasons.

Operations and results

Wildcat well 16/3-1 was spudded with the semi-submersible installation Polyglomar Driller on 11 February 1976 and drilled to TD at 2019 m in granite basement. No significant problems were reported from the operations. The well was drilled with spud mud (gel and lime) and pre-hydrated bentonite down to 440 m, and with lignosulphonate mud from 440 m to TD. Around the well there was a 3 m deep and 15 m wide crater. Gas was observed leaking from 2 main openings and 1 minor. The gas flow from one of the major openings was about 400 l/hour. The gas was practically pure methane (99.98%), probably coming from layers near the surface.

There were no sands in Paleocene and the Cretaceous chalk was tight. A 20 m thick immature Draupne shale was encountered at 1955 m. The well then encountered a 31 m thick late Jurassic sandstone from 1975 m to 2006 m. Below this sandstone was a 9 m thick layer of weathered basement overlying the solid granite. The well proved to be water wet all through, and no shows were recorded.

Three cores were cut. Core 1 gave no recovery, while core recovered 3.5 m core from the interval 1998 m to 2000.6 m in the Late Jurassic sand. Core no 3 was cut from 2017.5 m to 2019 m in basement rock. No fluid sample was taken in the well.

The well was permanently abandoned on 8 March 1976 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]
210.00	2017.00

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	1998.0	2000.6	[m]
2	2017.5	2019.0	[m]

Total core sample length [m]	4.1
Cores available for sampling?	YES

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
142	NORDLAND GP
779	UTSIRA FM
882	HORDALAND GP
1302	ROGALAND GP
1302	BALDER FM
1344	SELE FM
1356	LISTA FM
1450	VÅLE FM
1458	SHETLAND GP
1458	EKOFISK FM
1471	TOR FM
1549	HOD FM
1682	SVARTE FM
1785	CROMER KNOLL GP
1785	RØDBY FM
1800	SOLA FM
1908	ÅSGARD FM
1955	VIKING GP
1955	DRAUPNE FM
1975	UNDEFINED GP
2006	UNDEFINED GP
2015	BASEMENT

Geochemical information

Document name	Document format	Document size [MB]
334_1	pdf	0.17
334_2	pdf	0.80

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

Document name	Document format	Document size [MB]
334_01_WDSS_General_Information	pdf	0.26



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

Document name	Document format	Document size [MB]
334_01_16_3_2_Final_Report	pdf	3.38
334_02_16_3_2_Core_Report_2	pdf	0.13
334_02_16_3_2_Core_Report	pdf	0.23
334_02_16_3_2_Pressure_Porosity_Program_Core_2	pdf	1.02
334_02_16_3_2_Sidewall_Core_Description	pdf	1.34
334_03_16_3_2_Progress_Report	pdf	1.44
334_04_16_3_2_Computer_Processed_Drilling_Data	pdf	8.07
334_05_16_3_2_Micropaleontological_Report_Cretaceous_and_Jur	pdf	1.13
334_05_16_3_2_Palynological_report_on_the_Lower_Tertiary	pdf	1.16
334_05_16_3_2_Palynological_Report_on_the_Lower_Tertiary_and	pdf	0.50
334_05_16_3_2_Sedimentological_Study_of_Jurassic_Deposits	pdf	0.60
334_05_16_3_2_Sedimentological_Study_of_Tertiary_Deposits	pdf	0.86
334_05_16_3_2_Source_Rock_Identification_and_Organic_Catagene	pdf	1.14

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC GR	1314	1657
BHC GR	1321	141
BHC GR	1657	2019
CST	470	1310
CST	1325	2010
CST	1325	2010
HDT	1314	2020
HRT	200	1148
IES	440	1321
IES	1657	2019
IFS	1314	1660





VELOCITY	440	2020
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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	190.0	36	191.0	0.00	LOT
SURF.COND.	20	207.0	26	212.0	0.00	LOT
INTERM.	13 3/8	440.0	17 1/2	445.0	0.00	LOT
INTERM.	9 5/8	1314.0	12 1/4	1319.0	0.00	LOT
OPEN HOLE		2019.0	8 1/2	2019.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
200	1.07			sea water	
445	1.06			sea water	
1319	1.15			waterbased	
1659	1.22	45.0		waterbased	
2019	1.28	57.0		waterbased	