General information

Wellbore name	2/3-3
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/3-3
Seismic location	LINE 13.
Production licence	022
Drilling operator	Norske Murphy Oil Company
Drill permit	61-L
Drilling facility	OCEAN TIDE
Drilling days	44
Entered date	08.10.1971
Completed date	20.11.1971
Release date	20.11.1973
Publication date	24.09.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	31.0
Water depth [m]	56.0
Total depth (MD) [m RKB]	2973.0
Final vertical depth (TVD) [m RKB]	2973.0
Bottom hole temperature [°C]	73
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	56° 48' 18.9'' N
EW degrees	3° 58' 11.5'' E
NS UTM [m]	6296267.73
EW UTM [m]	559226.21
UTM zone	31
NPDID wellbore	198

Wellbore history

General

Well 2/3-3 is located east of the Steinbit Terrace on the Sørvestlandet High. The main targets for the well were Danian limestones, Jurassic sands, and Oligocene sands.

Operations and results

Wildcat well 2/3-3 was spudded with the Jack-up installation Ocean Tide on 8 October 1971 and drilled to TD at in Late Permian Zechstein salt. Operations went without major problems except for some delays due to bad weather (on 17 November with winds in excess of 40 m/s and seas up to 17 m). The well was drilled with Bentonite and salt gel down to 269 m and with Spersene mud with 2% - 6.5% diesel from 269 m to TD.

The well drilled a thick Tertiary/Quaternary section, mainly represented by grey sandy clays of Pliocene and Pleistocene age and by brown clays and mudstones of Oligocene to Miocene age. The Paleocene and Early Eocene consisted of varicoloured clays. No potential reservoirs (sands, sandstones and limestones) were found in the Tertiary.

A moderate thickness (235 m) of Chalk was penetrated. The top 41 m was of Danian age (Ekofisk Formation, the remainder was of Santonian-Maastrichtian age (Tor and Hod Formations). One hundred and forty seven meters of Early Cretaceous rested on Kimmeridgian shales. From the base of the Kimmeridgian downwards, the section was poorly fossiliferous and only tentatively dated. The only shows observed were elevated methane readings in sand stringers in the interval 400 m to 900 m and in shales below this depth. No liquid hydrocarbons were observed in any part of the well. No cores were cut and no fluid samples taken. The well was abandoned as dry on 20 November 1971.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
280.42	2966.92

Cuttings available for sampling?	NO

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
4720.0	[ft]	DC	RRI
4750.0	[ft]	DC	RRI
4785.0	[ft]	DC	RRI
4800.0	[ft]	DC	RRI
4815.0	[ft]	DC	RRI
4830.0	[ft]	DC	RRI

4845.0	[ft]	DC	RRI
4860.0	[ft]	DC	RRI
4875.0	[ft]	DC	RRI
4890.0	[ft]	DC	RRI
4905.0	[ft]	DC	RRI
4920.0	[ft]	DC	RRI
4935.0	[ft]	DC	RRI
4950.0	[ft]	DC	RRI
4965.0	[ft]	DC	RRI
4980.0	[ft]	DC	RRI
4995.0	[ft]	DC	RRI
5010.0	[ft]	DC	RRI
5025.0	[ft]	DC	RRI
5040.0	[ft]	DC	RRI
5055.0	[ft]	DC	RRI
5070.0	[ft]	DC	RRI
5085.0	[ft]	DC	RRI
5115.0	[ft]	DC	RRI
5130.0	[ft]	DC	RRI
5145.0	[ft]	DC	RRI
5160.0	[ft]	DC	RRI
5175.0	[ft]	DC	RRI
5190.0	[ft]	DC	RRI
5205.0	[ft]	DC	RRI
5250.0	[ft]	DC	RRI
5295.0	[ft]	DC	RRI
5340.0	[ft]	DC	RRI
5385.0	[ft]	DC	RRI
5430.0	[ft]	DC	RRI
5475.0	[ft]	DC	RRI
5520.0	[ft]	DC	RRI
5550.0	[ft]	DC	RRI
5610.0	[ft]	DC	RRI
5655.0	[ft]	DC	RRI
5700.0	[ft]	DC	RRI
5740.0	[ft]	DC	RRI
5805.0	[ft]	DC	RRI
5850.0	[ft]	DC	RRI
5910.0	[ft]	DC	RRI
5955.0	[ft]	DC	RRI

6000.0	[ft]	DC	RRI
6060.0	[ft]	DC	RRI
6105.0	[ft]	DC	RRI
6150.0	[ft]	DC	RRI
6210.0	[ft]	DC	RRI
6255.0	[ft]	DC	RRI
6300.0	[ft]	DC	RRI
6360.0	[ft]	DC	RRI
6405.0	[ft]	DC	RRI
6465.0	[ft]	DC	RRI
6510.0	[ft]	DC	RRI
6540.0	[ft]	DC	RRI
6645.0	[ft]	DC	RRI
6700.0	[ft]	DC	RRI
6750.0	[ft]	DC	RRI
6810.0	[ft]	DC	RRI
6855.0	[ft]	DC	RRI
6900.0	[ft]	DC	RRI
6960.0	[ft]	DC	RRI
7000.0	[ft]	DC	RRI
7050.0	[ft]	DC	RRI
7110.0	[ft]	DC	RRI
7155.0	[ft]	DC	RRI
7200.0	[ft]	DC	RRI
7335.0	[ft]	DC	RRI
7350.0	[ft]	DC	RRI
7410.0	[ft]	DC	RRI
7455.0	[ft]	DC	RRI
7485.0	[ft]	DC	RRI
7500.0	[ft]	DC	RRI
7560.0	[ft]	DC	RRI
7605.0	[ft]	DC	RRI
7635.0	[ft]	DC	RRI
7650.0	[ft]	DC	RRI
7680.0	[ft]	DC	RRI
7755.0	[ft]	DC	RRI
7770.0	[ft]	DC	RRI
7800.0	[ft]	DC	RRI
7830.0	[ft]	DC	RRI
7860.0	[ft]	DC	RRI

7905.0	[ft]	DC	RRI
7950.0	[ft]	DC	RRI
8025.0	[ft]	DC	RRI
8055.0	[ft]	DC	RRI
8115.0	[ft]	DC	RRI
9270.0	[ft]	DC	SNEA
9315.0	[ft]	DC	SNEA
9390.0	[ft]	DC	SNEA
9405.0	[ft]	DC	SNEA
9480.0	[ft]	DC	SNEA
9510.0	[ft]	DC	SNEA
9600.0	[ft]	DC	SNEA
9645.0	[ft]	DC	SNEA

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
88	NORDLAND GP
1060	HORDALAND GP
2267	ROGALAND GP
2267	BALDER FM
2283	SELE FM
2340	LISTA FM
2443	SHETLAND GP
2443	EKOFISK FM
2484	TOR FM
2630	HOD FM
2678	CROMER KNOLL GP
2678	RØDBY FM
2710	SOLA FM
2825	TYNE GP
2825	MANDAL FM
2850	FARSUND FM
2875	NO GROUP DEFINED
2875	SKAGERRAK FM
2930	ZECHSTEIN GP

Composite logs

Document name	Document format	Document size [MB]
198	pdf	0.32

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

Document name	Document format	Document size [MB]
198_01_WDSS_General_Information	pdf	0.16

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

Document name	Document format	Document size [MB]
198_1_Completion_Report	pdf	4.63
198_2_Paleontological_final_report	pdf	2.66
198_3_Drilling_programme	pdf	0.64
198_4_High_resolution_boomer_sparker_and_side_scan_surv	pdf	0.95

Documents - Norwegian Offshore Directorate papers

Document name	Document format	Document size [MB]
198_01_NPD_Paper_No.17_Lithology__Well_2_3_3	pdf	19.10
198_02_NPD_Paper_No.17_Interpreted_Lithology_log__Well_2_3_3	pdf	46.58

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST	97	2973
DIL LL	1084	2972
FDC GR CAL	2913	2972
GR	91	2970
GR SON CAL	1084	2970
HRDIP	1084	2972

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	123.0	36	123.0	0.00	LOT
INTERM.	20	264.0	26	279.0	0.00	LOT
INTERM.	13 3/8	1084.0	17 1/2	1098.0	0.00	LOT
OPEN HOLE		2973.0	12 1/4	2973.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
278	1.04	40.0		seawater	
1097	1.43	65.0		seawater	
1940	1.50	55.0		seawater	
2669	1.57	58.0		seawater	