

General information

Wellbore name	2/4-13
Type	EXPLORATION
Purpose	WILDCAT
Status	JUNKED
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/4-13
Seismic location	LINJE NS - 5 - 235 SP 585
Production licence	146
Drilling operator	Saga Petroleum ASA
Drill permit	588-L
Drilling facility	TREASURE SAGA
Drilling days	33
Entered date	03.09.1988
Completed date	06.10.1988
Release date	06.10.1990
Publication date	13.12.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	NOT APPLICABLE
Discovery wellbore	NO
Kelly bushing elevation [m]	26.0
Water depth [m]	69.0
Total depth (MD) [m RKB]	2518.0
Final vertical depth (TVD) [m RKB]	2517.0
Maximum inclination [°]	2.9
Bottom hole temperature [°C]	65
Oldest penetrated age	OLIGOCENE
Oldest penetrated formation	HORDALAND GP
Geodetic datum	ED50
NS degrees	56° 41' 3.98" N
EW degrees	3° 8' 44.53" E
NS UTM [m]	6282409.61
EW UTM [m]	508926.35
UTM zone	31
NPDID wellbore	1313

Wellbore history

General

Wildcat well 2/4-13 was drilled in the middle of a northwest to southeast trending structural/stratigraphic closure on a rotated fault block, about 12 km north of the Ekofisk Field in the North Sea. The primary purpose of the well was to assess the hydrocarbon potential and to test the reservoir potential of Late Jurassic sandstone.

Operations and results

Well 2/4-13 was spudded with the semi-submersible installation Treasure Saga on 3 September 1988. The well was drilled through the 36", 26", and 17 1/2" sections. The 17 1/2" section was logged before the 13 3/8 casing was run and cemented with shoe at 2503 m. Problems with the seal assembly occurred, which eventually lead to plugging and abandonment of the well. The well was drilled with spud mud and gel down to 921 m and with KCl mud from 921 m to TD.

The well penetrated the Nordland Group to a total depth of 2518 m, 847 m into the Hordaland Group. Shallow gas was seen on MWD between 560 m and 650 m. Below this level background gas varied between 1 - 15 % with trip gas up to 32%. The gas was composed of C1 and C2 with trace C3 towards TD.

The well was permanently abandoned on 6 October 1988 as a junked well. The rig was moved 53.4 m NNW for spudding of a new well bore with the same objectives, well 2/4-14.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
230.00	2510.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
95	NORDLAND GP
1766	HORDALAND GP

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

Document name	Document format	Document size [MB]
1313_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]
1313_2_4_13_COMPLETION_REPORT_AND_LOG	pdf	18.70

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	214.0	36	218.0	0.00	LOT
SURF.COND.	20	906.0	26	922.0	1.82	LOT
INTERM.	13 3/8	2503.0	17 1/2	2518.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
215	1.07			WATER BASED	07.09.1988
218	1.05			WATER BASED	07.09.1988
560	1.13	4.0	17.3	WATER BASED	23.09.1988
922	1.20	6.0	17.3	WATER BASED	23.09.1988
922	1.20	8.0	13.9	WATER BASED	23.09.1988
1185	1.20	14.0	6.8	WATER BASED	23.09.1988
1505	1.35	20.0	5.3	WATER BASED	23.09.1988
1720	1.35	28.0	5.3	WATER BASED	23.09.1988
1984	1.50	20.0	4.4	WATER BASED	23.09.1988
2216	1.55	23.0	4.8	WATER BASED	23.09.1988
2406	1.60	24.0	3.4	WATER BASED	23.09.1988
2450	1.60	27.0	5.3	WATER BASED	23.09.1988
2518	1.60	24.0	3.9	WATER BASED	23.09.1988
2518	1.60	28.0	3.4	WATER BASED	23.09.1988
2518	1.60	23.0	4.8	WATER BASED	03.10.1988
2518	1.60	24.0	4.8	WATER BASED	03.10.1988

2518	1.60	25.0	5.8	WATER BASED	03.10.1988
2518	1.60	26.0	4.4	WATER BASED	03.10.1988
2518	1.60	27.0	5.8	WATER BASED	03.10.1988
2518	1.60	41.0	33.6	WATER BASED	03.10.1988
2518	1.60	37.0	30.7	WATER BASED	14.10.1988
2518	1.60	40.0	33.6	WATER BASED	14.10.1988
2518	1.60	25.0	3.4	WATER BASED	23.09.1988
2518	1.60	28.0	3.9	WATER BASED	23.09.1988
2518	1.60	23.0	3.9	WATER BASED	03.10.1988
2518	1.60	42.0	26.4	WATER BASED	03.10.1988
2518	1.60	21.0	32.6	WATER BASED	14.10.1988
2518	1.60	26.0	13.0	WATER BASED	14.10.1988