

**General information**

Wellbore name	7125/1-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	BARENTS SEA
Discovery	7125/1-1 (Binne)
Well name	7125/1-1
Seismic location	GWF - 2 - 24 SP 988
Production licence	135
Drilling operator	Saga Petroleum ASA
Drill permit	597-L
Drilling facility	ROSS RIG (2)
Drilling days	31
Entered date	30.11.1988
Completed date	30.12.1988
Release date	30.12.1990
Publication date	11.01.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	STØ FM
2nd level with HC, age	MIDDLE TRIASSIC
2nd level with HC, formation	KOBBE FM
Kelly bushing elevation [m]	23.5
Water depth [m]	252.2
Total depth (MD) [m RKB]	2200.0
Final vertical depth (TVD) [m RKB]	2199.0
Maximum inclination [°]	2.1
Bottom hole temperature [°C]	64
Oldest penetrated age	MIDDLE TRIASSIC
Oldest penetrated formation	KOBBE FM
Geodetic datum	ED50
NS degrees	71° 53' 24.26" N
EW degrees	25° 11' 15.46" E
NS UTM [m]	7977833.23



EW UTM [m]	437126.92
UTM zone	35
NPDID wellbore	1350

Wellbore history

General

Well 7125/1-1 was drilled in the Lopparyggen East area on the southern end of the Bjarmeland Platform towards the Nyslepp Fault Complex. The primary purpose of the well was to test for hydrocarbons in the Late Triassic/Early Jurassic sandstones of the Kapp Toscana Group. These were found hydrocarbon bearing in well 7124/3-1. A secondary objective was to test for hydrocarbons in the underlying Middle Triassic Kobbe Formation. In well 7124/3-1 weak oil shows were seen in sands from this formation.

Operations and results

Wildcat well 7125/1-1 was spudded with the semi-submersible installation Ross Rig 30 November 1988 and drilled to TD at 2200 m in Triassic rocks. Drilling proceeded without significant problems. The well was drilled with spud mud down to 818 m and with KCl / polymer mud from 818 m to TD.

There was no indication of shallow gas in the hole. The well proved a significant reservoir development in the Kapp Toscana Group where 130 m sandstone with good reservoir properties was indicated. Top of Kapp Toscana Group, Stø Formation, was encountered at 1399 m. Logs and RFT showed a thin oil zone of 1 - 1.5 m from 1403.5 - 1405 m. Oil shows were seen from 1402.5 m down to 1435 m in sandstones. In the interval 1405 -2200 pressure point measurements show a gradient of 1.14 SG, which indicate saline formation water. The Triassic Kobbe Formation was encountered at 2104.5 m. Gas was encountered in two thin sand intervals in the top of the Kobbe Formation. The upper sand interval (2105.1 m to 2107.8 m) has an average log porosity of 19 % and an average water saturation of 49 %. In the lower sand (2123.5 m to 2125.3 m) the corresponding values are 20.5 and 53, respectively. Gas shows and weak oil shows were observed in thin sand intervals down to 2140 m. One core was taken in the Hekkingen Formation cap rock from 1360 to 1371 m. A second core was taken in the Stø reservoir sandstone from 1406 m to 1434 m. A total of three Repeat Formation Tester (RFT) samples were recovered; an oil sample at 1403.8 m, a water sample at 1405.5 m and a gas/water sample at 2106.3 m.

The well was permanently abandoned as a minor oil and gas discovery on 30 December 1988.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
820.00	2199.00

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	1360.0	1368.0	[m]
2	1406.0	1434.0	[m]

Total core sample length [m]	36.0
Cores available for sampling?	YES

Core photos


1406-1411m



1411-1416m



1416-1421m



1421-1426m



1426-1431m



1431-1434m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1370.5	[m]	C	ICHRON

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
276	NORDLAND GP
391	SOTBAKKEN GP
568	NYGRUNNEN GP



568	KVEITE FM
597	KVITING FM
617	ADVENTDALEN GP
617	KOLMULE FM
1314	KOLJE FM
1318	KNURR FM
1344	HEKKINGEN FM
1399	KAPP TOSCANA GP
1399	STØ FM
1521	FRUHOLMEN FM
1612	SNADD FM
2105	SASSENDALEN GP
2105	KOBBE FM

Composite logs

Document name	Document format	Document size [MB]
1350	pdf	0.28

Geochemical information

Document name	Document format	Document size [MB]
1350_1	pdf	2.01

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

Document name	Document format	Document size [MB]
1350_01 WDSS General Information	pdf	0.18
1350_02 WDSS completion log	pdf	0.20

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





Document name	Document format	Document size [MB]
1350_7125_1_1_COMPLETION_REPORT_AND_LOG	pdf	18.27

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST	403	645
CST GR	403	645
DIL LSS GR	401	816
DIL LSS GR	804	2180
LDL CNL GR	804	2181
LDL GR	401	816
MWD - GR RES	405	2200
RFT HP	1405	0
RFT HP AMS	1401	2138
RFT HP AMS	1401	2138
SHDL AML GR	804	2183
VSP	400	2184

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	399.0	36	0.0	0.00	LOT
INTERM.	13 3/8	802.0	17 1/2	0.0	1.20	LOT
OPEN HOLE		2200.0	12 1/4	2200.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
314	1.06			WATER BASED	12.12.1988
320	1.25	20.0	5.3	WATER BASED	28.12.1988
402	1.06			WATER BASED	12.12.1988
404	1.06			WATER BASED	12.12.1988
607	1.06			WATER BASED	12.12.1988
818	1.20	14.0	7.2	WATER BASED	12.12.1988





818	1.06			WATER BASED	12.12.1988
955	1.20	11.0	5.8	WATER BASED	12.12.1988
1213	1.25	16.0	7.2	WATER BASED	12.12.1988
1360	1.25	16.0	5.3	WATER BASED	12.12.1988
1360	1.25	15.0	6.3	WATER BASED	12.12.1988
1406	1.25	13.0	6.8	WATER BASED	13.12.1988
1438	1.25	17.0	7.2	WATER BASED	14.12.1988
1567	1.25	13.0	6.3	WATER BASED	15.12.1988
1589	1.25	15.0	6.3	WATER BASED	19.12.1988
1702	1.25	14.0	6.3	WATER BASED	20.12.1988
1759	1.25	18.0	6.8	WATER BASED	20.12.1988
1860	1.25	18.0	6.8	WATER BASED	20.12.1988
1920	1.25	19.0	6.3	WATER BASED	20.12.1988
2034	1.25	20.0	7.2	WATER BASED	21.12.1988
2074	1.25	20.0	6.3	WATER BASED	22.12.1988
2171	1.25	20.0	7.2	WATER BASED	27.12.1988
2200	1.25	19.0	6.3	WATER BASED	27.12.1988
2200	1.25	20.0	5.8	WATER BASED	27.12.1988
2200	1.25	20.0	5.3	WATER BASED	27.12.1988
2200	1.25			WATER BASED	28.12.1988

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
1423.70	[m]
1433.70	[m]
1408.00	[m]
1413.25	[m]
1418.40	[m]
1423.50	[m]
1432.40	[m]

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]
1350 Formation pressure (Formasjonstrykk)	pdf	0.24

