

**General information**

Wellbore name	7120/12-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	BARENTS SEA
Well name	7120/12-1
Seismic location	722 273 SP.105
Production licence	061
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	250-L
Drilling facility	TREASURE SEEKER
Drilling days	134
Entered date	01.06.1980
Completed date	12.10.1980
Release date	12.10.1982
Publication date	11.02.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	167.0
Total depth (MD) [m RKB]	3573.0
Final vertical depth (TVD) [m RKB]	3516.0
Maximum inclination [°]	23
Bottom hole temperature [°C]	65
Oldest penetrated age	MIDDLE TRIASSIC
Oldest penetrated formation	KOBBE FM
Geodetic datum	ED50
NS degrees	71° 6' 48.71" N
EW degrees	20° 45' 20.13" E
NS UTM [m]	7890289.38
EW UTM [m]	491169.71
UTM zone	34
NPDID wellbore	123



Wellbore history

Well 7120/12-1 was, together with Statoil's well 7119/12-1, the first well to be drilled offshore northern Norway in the Norwegian Sea, Troms I area. Based on seismic interpretation and regional geological data the location of the well was planned to test possible sandstone reservoirs of Middle Jurassic, Early Jurassic, and Late Triassic age. Post-Jurassic sediments were not considered prospective due to lack of closure and/or reservoir rocks. The well was planned to be drilled through a seismic marker at 1965 + 90 m and down to 2500 m (+ 300 m).

Operations and results

Exploration well 7120/12-1 was spudded with the semi-submersible installation Treasure Seeker on 1 June 1980 and drilled to TD at 3573 m in Middle Triassic sandstones and shales (Kobbe Formation). When testing the BOP after setting the 20" casing a leakage was detected in the kill line. Three days was spent repairing this before operations could continue. At 1900 m drilling was interrupted by a 35-days labour strike, from 10 July to 14 August. The hole deviation was significant in the 8 3/4" section, building angle from 4 deg at 1875 m to 23 deg at TD. This resulted in a 57 m difference between drilled depth and true vertical depth at final TD. The well was drilled with seawater and hi-vis pills through the 36" and 26" sections down to 710 m and with lignosulphonate/lignite (Spersene/XP-20) mud from 710 m to TD.

The well encountered traces of hydrocarbons in thin sandstone reservoirs of Early Cretaceous and Late Triassic age.

The target seismic marker was reached at 2019 m (the Fuglen Formation). A 450 m thick sequence of sandstones with minor interbeds of shales of Middle to Lower Jurassic and Late Triassic age was penetrated below this marker, from 2047 m to 2497 m (Stø, Nordmela, Tubåen, and Fruholmen Formations). The sandstones in this sequence were water bearing. From log evaluation total net sand in the sequence was 271.5 m with an average porosity of 19% in the top interval decreasing to 15% in the lowest one. The Early Cretaceous sandstones, 1543 m to 1660 m, occurred as thin interbeds in a shale sequence, and were very fine to fine grained and partly calcite cemented. The net pay was 21 m and the average calculated porosity and water saturation was 16% and 74%, respectively. The hydrocarbons were considered residual and immovable. In the Late to middle Triassic from 3095 m to 3560 m (Snadd and Kobbe Formations) contained 43.5 m net sand with porosities in the range 7 % to 12 % and water saturation in the range 65 % to 88 %, from log evaluations.

Organic geochemistry show 2 % to 11 % TOC with a Hydrogen Index in the range 200 - 500 mg HC/g TOC throughout a massive Late Jurassic shale section from 1705 m to 2018 m. The sequence is immature in well position with %Ro ca 0.5 and Tmax ca 425 degC at 2000 m. The analyses also indicated migrated hydrocarbons in the Middle Jurassic to Late Triassic sandstones, in contradiction to a general lack of shows recorded during drilling.

Five conventional cores were taken. Core 1 was cut from 1535 to 1546 m in the Lower Cretaceous (Knurr Formation). Core 2 was cut from 1661 to 1668 m in the upper part of the Hekkingen Formation. Core 3 was cut from 1702.6 to 1707.6 m in the Hekkingen Formation. Core 4 was cut from 2042 to 2058.6 m covering the top of the Middle Jurassic sandstone and 5 m of the overlying Fuglen Formation. Core 5 was cut from 3521.3 to 3525.5 m in the Kobbe Formation. Three RFT runs were made for pressure recording and evaluation of the encountered sandstone reservoirs. Due to tight formations and tool problems a restricted number of pressure recordings were obtained and no samples could be taken in the Early Cretaceous and the Triassic sandstones. The pressure recordings from the Middle Jurassic to Late Triassic sandstone sequence gave a gradient of 0.455 psi/ft (1.02 g/cm3). No significant overpressures were detected



where measurements were taken, only a slight increase from a normal trend could be interpreted in the lowest part of the well.

The well was permanently abandoned as dry with weak shows on 12 October 1980.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
280.00	3474.50

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	1535.0	1546.3	[m]
2	1661.0	1668.0	[m]
3	1702.6	1708.3	[m]
4	2042.0	2058.6	[m]
5	3521.0	3525.6	[m]

Total core sample length [m]	45.2
Cores available for sampling?	YES

Core photos

1535-1537m



1537-1540m



1540-1542m



1542-1545m



1545-1546m



1661-1663m



1663-1666m



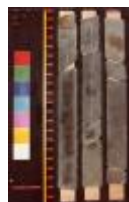
1666-1668m



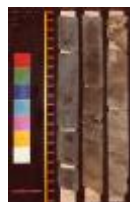
1702-1705m



1705-1708m



2042-2044m



2044-2047m



2047-2050m



2050-2053m



2053-2055m



2055-2057m



2057-2058m



3521-3524m



3524-3525m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
450.0	[m]	DC	
480.0	[m]	DC	
500.0	[m]	DC	
550.0	[m]	DC	
595.0	[m]	DC	IKU
600.0	[m]	DC	
640.0	[m]	DC	IKU
650.0	[m]	DC	
670.0	[m]	DC	
699.0	[m]	SWC	IKU
700.0	[m]	DC	
705.0	[m]	SWC	IKU
710.0	[m]	SWC	IKU
715.0	[m]	SWC	IKU
720.0	[m]	SWC	IKU
720.0	[m]	DC	



725.0 [m]	DC	
727.0 [m]	SWC	IKU
729.0 [m]	SWC	IKU
730.0 [m]	SWC	IKU
735.0 [m]	SWC	IKU
735.0 [m]	DC	
739.0 [m]	SWC	IKU
740.0 [m]	SWC	IKU
744.0 [m]	SWC	IKU
745.0 [m]	SWC	IKU
745.0 [m]	DC	
748.0 [m]	SWC	IKU
750.0 [m]	SWC	IKU
750.0 [m]	DC	IKU
750.0 [m]	DC	
755.0 [m]	DC	IKU
760.0 [m]	SWC	IKU
775.0 [m]	SWC	IKU
780.0 [m]	SWC	IKU
795.0 [m]	SWC	IKU
800.0 [m]	DC	
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855.0 [m]	SWC	IKU
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975.0 [m]	SWC	IKU
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2880.0	[m]	DC	OD
2885.0	[m]	DC	IKU
2890.0	[m]	DC	OD
2898.0	[m]	DC	IKU
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2902.0	[m]	SWC	IKU
2905.0	[m]	DC	IKU
2910.0	[m]	DC	OD
2920.0	[m]	DC	OD
2920.0	[m]	DC	IKU
2925.0	[m]	SWC	IKU



2930.0	[m]	DC	OD
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2940.0	[m]	DC	OD
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2955.0	[m]	DC	IKU
2960.0	[m]	DC	OD
2970.0	[m]	DC	IKU
2970.0	[m]	DC	OD
2970.0	[m]	DC	OD
2980.0	[m]	DC	OD
2985.0	[m]	DC	IKU
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3000.0	[m]	DC	OD
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3070.0	[m]	DC	OD
3070.0	[m]	DC	IKU
3080.0	[m]	DC	OD
3085.0	[m]	SWC	IKU
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3275.0 [m]	SWC	IKU
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3415.0 [m]	DC	IKU
3425.0 [m]	SWC	IKU
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3475.0 [m]	DC	IKU
3475.0 [m]	DC	FUGRO
3480.0 [m]	DC	FUGRO
3488.0 [m]	DC	FUGRO
3495.0 [m]	DC	IKU
3500.0 [m]	DC	FUGRO
3505.0 [m]	DC	FUGRO
3505.0 [m]	SWC	IKU
3508.0 [m]	SWC	IKU
3515.0 [m]	DC	IKU
3515.5 [m]	SWC	IKU
3520.0 [m]	DC	FUGRO
3521.6 [m]	C	FUGRO
3522.0 [m]	C	OD
3522.0 [m]	C	IKU
3522.1 [m]	C	ICHRON
3522.3 [m]	C	OD
3522.4 [m]	C	OD
3522.5 [m]	C	IKU
3523.0 [m]	DC	IKU
3523.3 [m]	C	FUGRO
3523.4 [m]	C	IKU
3523.7 [m]	C	OD



3524.0 [m]	C	OD
3524.4 [m]	C	ICHRON
3524.5 [m]	C	OD
3524.5 [m]	C	IKU
3524.6 [m]	C	OD
3525.5 [m]	C	FUGRO
3525.5 [m]	C	IKU
3525.6 [m]	C	OD
3534.0 [m]	SWC	IKU
3543.0 [m]	SWC	IKU
3545.0 [m]	DC	IKU
3560.0 [m]	DC	IKU
3560.0 [m]	DC	
3563.0 [m]	DC	IKU
3565.0 [m]	DC	
3570.0 [m]	DC	
3570.0 [m]	DC	IKU
3570.0 [m]	SWC	IKU
3573.0 [m]	DC	IKU
3575.0 [m]	DC	IKU
3575.0 [m]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
192	NORDLAND GP
462	SOTBAKKEN GP
462	TORSK FM
725	NYGRUNNEN GP
725	KVITING FM
742	ADVENTDALEN GP
742	KOLMULE FM
1272	KOLJE FM
1375	KNURR FM
1660	HEKKINGEN FM
1660	KRILL MBR
1969	ALGE MBR
2019	FUGLEN FM
2047	KAPP TOSCANA GP



2047	STØ FM
2152	NORDMELA FM
2250	TUBÅEN FM
2337	FRUHOLMEN FM
2337	KRABBE MBR
2413	REKE MBR
2497	AKKAR MBR
2535	SNADD FM
3474	SASSENDALEN GP
3474	KOBBE FM

Composite logs

Document name	Document format	Document size [MB]
123	pdf	0.64

Geochemical information

Document name	Document format	Document size [MB]
123_1	pdf	7.50

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

Document name	Document format	Document size [MB]
123_01_WDSS_General_Information	pdf	0.12
123_02_WDSS_completion_log	pdf	0.23

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

Document name	Document format	Document size [MB]
123_01_Completion_Report	pdf	9.77
123_02_Completion_log	pdf	2.46





Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST	695	875
CST	890	1305
CST	1320	1860
CST	1327	1875
CST	1880	2344
CST	2333	2670
CST	2686	3219
CST	3246	3570
CYBERDIP	1303	3571
DLL MSFL	2950	3571
FDC CNL GR	1303	2528
FDC GR	278	1310
HDT	690	3571
HRT	300	1150
HRT	900	1600
ISF LSS GR	278	2527
ISF SONIC GR	2000	3572
LDT CNL GR	2000	3572
RFT	1608	1852
RFT	2060	2540
RFT	2627	2959
RFT	2960	3492
VELOCITY	192	1876
VELOCITY	192	3570

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	254.0	36	255.0	0.00	LOT
SURF.COND.	20	666.0	26	685.0	1.90	LOT
INTERM.	13 3/8	1277.0	17 1/2	1290.0	1.93	LOT
INTERM.	9 5/8	1835.0	12 1/4	1850.0	1.92	LOT
LINER	7	3548.0	8 1/2	3548.0	0.00	LOT

Drilling mud



Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
279	1.10	5.0	12.0	spud mud	
691	1.20	12.0	10.0	water based	
1815	1.26	12.0	4.0	water based	
1860	1.32			water based	
2322	1.32	16.0	4.0	water based	
2570	1.26	15.0	5.0	water based	
2981	1.22	18.0	5.0	water based	
3397	1.21	16.0	5.0	water based	
3573	1.32	24.0	7.0	water based	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
3521.40	[m]
3523.19	[m]
3525.10	[m]
1543.15	[m]
1543.85	[m]
1544.15	[m]
1703.50	[m]
1704.00	[m]
3521.30	[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]
123 Formation pressure (Formasjonstrykk)	pdf	0.28

