

**General information**

Wellbore name	7120/10-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	BARENTS SEA
Well name	7120/10-1
Seismic location	E 841 - 30 SP. 630
Production licence	098
Drilling operator	Esso Exploration and Production Norway A/S
Drill permit	429-L
Drilling facility	ZAPATA UGLAND
Drilling days	30
Entered date	10.08.1984
Completed date	08.09.1984
Release date	08.09.1986
Publication date	11.02.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	183.0
Total depth (MD) [m RKB]	2000.0
Maximum inclination [°]	8.5
Bottom hole temperature [°C]	71
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	FRUHOLMEN FM
Geodetic datum	ED50
NS degrees	71° 3' 6.25" N
EW degrees	20° 16' 29.8" E
NS UTM [m]	7883536.50
EW UTM [m]	473722.27
UTM zone	34
NPDID wellbore	274

**Wellbore history****General**

Wildcat well 7120/10-1 is located in the Troms I area in the southwestern part of the Hammerfest Basin, close to the Troms-Finnmark Fault Complex. The main objective of the well was to test the Middle to Early Jurassic sands of the B-prospect located in the south-eastern part of the block

Operations and results

The well was spudded with the semi-submersible installation Zapata Ugland on 10 September 1984 and drilled to TD at 2000 m in the Late Triassic. While drilling the 36" hole a boulder zone was encountered at 210 m to 248 m, which made it difficult to set the 30" casing. When pressure testing the seal assembly before drilling out of the 9 5/8" casing shoe, a leak was found in the well head connector. The leakage was repaired before drilling of the 8 1/2" hole section. The well was drilled using gel/seawater down to 534 m, with bentonite/CMC from 534 m to 1302 m, and with gel/lignosulphonate/seawater from 1302 m to TD.

No hydrocarbons were encountered in the well. No potential reservoir sands were present above the Middle Jurassic. In the Middle Jurassic to Top Triassic interval a net 200 m of good quality potential reservoir sandstone was penetrated.

One core was cut in the Middle Jurassic Stø Formation from 1570 m to 1584 m. Twenty-two RFT pressure readings were obtained from 1570 m to 1589 m, showing a saltwater pressure gradient. A fluid sample was taken at 1573.9 m. The sample contained mud filtrate without any gas or any smell or sign of hydrocarbons.

The well was permanently abandoned on 8 September 1984 as a dry hole.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
250.00	1998.00

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	1570.0	1583.5	[m]

Total core sample length [m]	13.5
Cores available for sampling?	YES



Core photos



1570-1576m



1576-1582m



1582-1583m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
270.0	[m]	DC	
300.0	[m]	DC	
330.0	[m]	DC	
360.0	[m]	DC	
390.0	[m]	DC	
420.0	[m]	DC	
450.0	[m]	DC	
480.0	[m]	DC	
510.0	[m]	DC	
540.0	[m]	DC	
570.0	[m]	DC	
580.0	[m]	DC	
600.0	[m]	DC	
630.0	[m]	DC	
660.0	[m]	DC	
690.0	[m]	DC	
720.0	[m]	DC	
750.0	[m]	DC	
760.0	[m]	DC	
780.0	[m]	DC	
810.0	[m]	DC	
820.0	[m]	DC	
840.0	[m]	DC	
870.0	[m]	DC	
900.0	[m]	DC	



930.0 [m]	DC	
960.0 [m]	DC	
990.0 [m]	DC	
1020.0 [m]	DC	
1050.0 [m]	DC	
1080.0 [m]	DC	
1090.0 [m]	DC	
1110.0 [m]	DC	
1140.0 [m]	DC	
1170.0 [m]	DC	
1200.0 [m]	DC	
1210.0 [m]	DC	
1230.0 [m]	DC	
1240.0 [m]	DC	
1260.0 [m]	DC	
1290.0 [m]	DC	
1317.0 [m]	DC	
1331.0 [m]	SWC	RRI
1350.0 [m]	DC	
1360.0 [m]	SWC	RRI
1380.0 [m]	DC	
1398.0 [m]	SWC	RRI
1405.0 [m]	SWC	RRI
1410.0 [m]	DC	
1440.0 [m]	DC	
1442.0 [m]	SWC	RRI
1467.0 [m]	SWC	
1470.0 [m]	DC	
1500.0 [m]	DC	
1522.0 [m]	SWC	
1530.0 [m]	DC	
1537.0 [m]	SWC	RRI
1560.0 [m]	DC	
1590.0 [m]	DC	
1615.0 [m]	SWC	RRI
1620.0 [m]	DC	
1650.0 [m]	DC	
1680.0 [m]	DC	
1710.0 [m]	DC	
1740.0 [m]	DC	



1770.0	[m]	DC	
1800.0	[m]	DC	
1830.0	[m]	DC	
1860.0	[m]	DC	
1890.0	[m]	DC	
1893.0	[m]	SWC	RRI
1920.0	[m]	DC	
1926.0	[m]	SWC	RRI
1926.0	[m]	SWC	RRI
1940.0	[m]	SWC	RRI
1950.0	[m]	DC	
1956.0	[m]	DC	
1965.0	[m]	DC	
1980.0	[m]	DC	
1998.0	[m]	DC	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
210	NORDLAND GP
444	SOTBAKKEN GP
444	TORSK FM
531	NYGRUNNEN GP
531	KVITING FM
694	ADVENTDALEN GP
694	KOLMULE FM
1210	KOLJE FM
1353	KNURR FM
1394	HEKKINGEN FM
1533	FUGLEN FM
1568	KAPP TOSCANA GP
1568	STØ FM
1655	NORDMELA FM
1796	TUBÅEN FM
1914	FRUHOLMEN FM

Composite logs





Document name	Document format	Document size [MB]
274	pdf	0.36

Geochemical information

Document name	Document format	Document size [MB]
274_1	pdf	0.63

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

Document name	Document format	Document size [MB]
274_02_WDSS_completion_log	pdf	0.21

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

Document name	Document format	Document size [MB]
274_01_Completion_Report	pdf	9.65
274_02_Geological_Completion_Report	pdf	17.86
274_03_Completion_log	pdf	1.47

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST	1306	1995
ISF SLS GR CAL	210	1999
LDL CNL GR CAL	522	2000
RFT GR	1570	1989
SHDT	1302	2000
TEMP	210	1200
VELOCITY	900	2000

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	244.0	36	257.0	0.00	LOT
INTERM.	13 3/8	521.0	17 1/2	610.0	0.00	LOT
INTERM.	9 5/8	1300.0	12 1/4	1317.0	1.88	LOT
OPEN HOLE		2000.0	8 1/2	2000.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
216	1.00			WATER BASED	15.08.1984
237	1.00			WATER BASED	15.08.1984
248	1.00			WATER BASED	15.08.1984
253	1.12			WATER BASED	15.08.1984
253	1.06	15.0	23.9	WATER BASED	15.08.1984
253	1.06	15.0	23.9	WATER BASED	15.08.1984
440	1.09	9.0	5.3	WATER BASED	16.08.1984
535	1.10	10.0	4.8	WATER BASED	21.08.1984
535	1.10	10.0	4.8	WATER BASED	21.08.1984
535	1.10	10.0	4.8	WATER BASED	17.08.1984
586	1.15	11.0	12.9	WATER BASED	21.08.1984
900	1.18	16.0	7.7	WATER BASED	21.08.1984
1196	1.22	13.0	9.6	WATER BASED	21.08.1984
1317	1.22	13.0	12.9	WATER BASED	22.08.1984
1317	1.26	13.0	12.5	WATER BASED	23.08.1984
1317	1.26	13.0	12.5	WATER BASED	23.08.1984
1350	1.33	12.0	6.2	WATER BASED	06.09.1984
1371	1.26	11.0	5.3	WATER BASED	28.08.1984
1501	1.26	14.0	8.6	WATER BASED	29.08.1984
1570	1.30	12.0	6.7	WATER BASED	30.08.1984
1584	1.28	11.0	5.3	WATER BASED	31.08.1984
1611	1.34	14.0	8.6	WATER BASED	03.09.1984
1816	1.34	13.0	9.6	WATER BASED	03.09.1984
1920	1.36	14.0	7.7	WATER BASED	03.09.1984
1961	1.34	14.0	8.1	WATER BASED	04.09.1984

Thin sections at the Norwegian Offshore Directorate



Depth	Unit
1570.00	[m]
1571.00	[m]
1572.00	[m]
1573.00	[m]
1574.00	[m]
1576.00	[m]
1578.00	[m]
1580.00	[m]
1581.00	[m]
1583.00	[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]
274 Formation pressure (Formasjonstrykk)	pdf	0.25

