General information

Wellbore name	7131/4-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	BARENTS SEA
Well name	7131/4-1
Seismic location	ST9802 inline 1792 & x-line 6001
Production licence	233
Drilling operator	Statoil ASA (old)
Drill permit	1094-L
Drilling facility	EIRIK RAUDE
Drilling days	42
Entered date	02.04.2005
Completed date	13.05.2005
Release date	13.05.2007
Publication date	17.09.2007
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	331.0
Total depth (MD) [m RKB]	1295.0
Final vertical depth (TVD) [m RKB]	1295.0
Maximum inclination [°]	0.5
Bottom hole temperature [°C]	45
Oldest penetrated age	MIDDLE TRIASSIC
Oldest penetrated formation	KOBBE FM
Geodetic datum	ED50
NS degrees	71° 41' 40.98'' N
EW degrees	31° 0' 40.96'' E
NS UTM [m]	7956245.69
EW UTM [m]	430296.12
UTM zone	36
NPDID wellbore	5093

Wellbore history

General

Wildcat well is 7131/4-1 is located in the Finmark East area in the Barents Sea. It was completed as the most easterly positioned well in Norwegian waters. The objective was to prove hydrocarbons in the Fruholmen Formation of Norian age (the Garja 1 and Garja 2 sandstones) and in the Snadd Formation of Carnian age (the Guovca sandstone).

Operations and results

Well 7131/4-1 was spudded with the semi-submersible installation Eirik Raude on 2 April 2005 and drilled to TD at 1295 m in the Middle Triassic Kobbe Formation. Drilling went without significant incidents down to 811 m where the 13 3/8" casing was set. Then, on 12 April while moving the BOP to below rotary, a hydraulic supply line to the BOP trolley burst and approximately 1.6 m3 hydraulic oil was accidentally discharged to sea. This caused Statoil to

suspend the operation for a total of 432 hrs. The incident was investigated by the Norwegian authorities (Ptil and SFT) in addition to Statoil internally. After performing investigations, necessary authorization was obtained and the operation resumed. Further operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 806 m, and with Glydril (99% KCl/Pac/glycol) mud from 806 m to TD. No shallow gas was observed.

Well 7131/4-1 penetrated rocks of Quaternary, Cretaceous, Jurassic, and Triassic age. No Tertiary sediments were present. The observed stratigraphy was close to the prognosis, except for the presence of Stø Formation sandstone, which was not expected to be present at the location. No hydrocarbons were proven in well 7131/4-1, but shows in the form of cut and residual fluorescence was observed in core no.1 in argillaceous sandstone/siltstone at: 919-920 m, 925 m, 929-930 m, and 937-938 m.

One core was cut in the Garja 1 sandstone and one core was cut in the Guovca sandstone, as planned. MDT water samples were collected at 880.5 m, 1083 m, and at 1086.5 m in the Stø and Guovca sandstones. The samples were reported to be of very good quality

The well was permanently abandoned on 13 May 2005 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
814.00	1297.00

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	915.0	944.1	[m]
2	1070.0	1117.9	[m]

Total core sample length [m]	77.0
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
430	ADVENTDALEN GP
430	KOLMULE FM
824	KNURR FM
839	HEKKINGEN FM
878	KAPP TOSCANA GP
878	STØ FM
883	FRUHOLMEN FM
960	SNADD FM
1172	SASSENDALEN GP
1172	KOBBE FM

Geochemical information

Document name	Document format	Document size [MB]
5093_01_7131_4_1_gch_transfer_1	txt	0.00
5093_02_7131_4_1_gch_results_1	txt	0.24
5093_1	pdf	0.12
5093_2	pdf	0.67
5093_3	pdf	8.34

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST	818	1268
MDT PRESS	880	1209
MDT SAMPL	880	1083

MWD LWD - DCP APX MPR	413	811
MWD LWD - ONE TRAK	811	1070
MWD LWD - ONE TRAK APX	1070	1295
PEX DSI GPIT	799	1293
VSP	380	1280

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	403.0	36	407.0	0.00	LOT
SURF.COND.	13 3/8	799.0	17 1/2	806.0	1.67	LOT
OPEN HOLE		1295.0	8 1/2	1295.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
406	1.05			SW / BENTONITE 1	
811	1.05			SW / BENTONITE 1	
1209	1.33	18.0		GLYDRIL 74	
1295	1.33	18.0		GLYDRIL 74	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
1112.15	[m]
1108.50	[m]
1092.75	[m]
1086.75	[m]
1079.75	[m]
1077.50	[m]
1075.53	[m]
1071.25	[m]
932.50	[m]
929.75	[m]
924.15	[m]
920.38	[m]
915.40	[m]

917.75	[m]
937.20	[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]
5093_Formation_pressure_(Formasjonstrykk)	pdf	0.18