



General information

Wellbore name	7227/10-1
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	7227/10-1
Seismic location	ST10011:inline 2171 & xline 11407
Production licence	230
Drilling operator	Statoil Petroleum AS
Drill permit	1547-L
Drilling facility	TRANSOCEAN SPITSBERGEN
Drilling days	30
Entered date	12.10.2014
Completed date	10.11.2014
Release date	10.11.2016
Publication date	10.11.2016
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	40.0
Water depth [m]	232.0
Total depth (MD) [m RKB]	3152.0
Final vertical depth (TVD) [m RKB]	3135.0
Maximum inclination [°]	13.4
Oldest penetrated age	MIDDLE TRIASSIC
Oldest penetrated formation	KOBBE FM
Geodetic datum	ED50
NS degrees	72° 9' 48.74" N
EW degrees	27° 14' 18.15" E
NS UTM [m]	8007408.64
EW UTM [m]	508149.85
UTM zone	35
NPDID wellbore	7589



Wellbore history

General

Well 7227/10-1 was drilled to test the Saturn prospect in the Nordkapp Basin in the Barents Sea. The primary objective of the well was to prove a commercial oil volume in Intra Carnian (Snadd) reservoir sandstones. Secondary objectives were to test the hydrocarbon and potential in the Early-Middle Triassic Kobbe Formation and to test the presence and quality of the Early-Middle Triassic (Ladinian) source rocks.

Operations and results

Wildcat well 7227/10-1 was spudded with the semi-submersible installation Transocean Spitsbergen on 12 October 2014 and drilled to TD at 3152 m in the Middle Triassic Kobbe Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 600 m and with Glydril mud from 600 m to TD.

The well penetrated Tertiary, Cretaceous claystones, Jurassic claystones, sandstones and siltstones as well as Triassic sandstones, claystones, siltstones and coal stringers. Top of the Intra Carnian reservoir was encountered at 2288 m (2282 m TVD). Top of the Kobbe reservoir was encountered at 2785 m (2776 m TVD). No hydrocarbons were encountered in any of the reservoir levels. A thin (2.5 m) source rock sequence was penetrated at 2780.7 m (2779.7 m) at the base of the Snadd Formation. Analyses of sidewall cores from this sequence show average TOC of 5% and average Rock-Eval Hydrogen Index of 400 mg HC/g TOC, which correspond to excellent oil prone character, although too thin in well position to be an effective source rock. Only trace oil shows were described in this well. The shows were observed post-well in the laboratory, mostly in the interval 2450 to 2531 m in the Snadd Formation.

No cores were cut in the well. MDT water samples were collected at 2320.7 m.

The well was permanently abandoned on 10 November 2014 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]
600.00	3151.00

Cuttings available for sampling?	YES
----------------------------------	-----

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
600.0	[m]	DC	ROBERTSO
630.0	[m]	DC	ROBERT



660.0 [m]	DC	ROBERT
690.0 [m]	DC	ROBERT
720.0 [m]	DC	ROBERT
750.0 [m]	DC	ROBERT
780.0 [m]	DC	ROBERT
810.0 [m]	DC	ROBERT
840.0 [m]	DC	ROBERT
870.0 [m]	DC	ROBERT
900.0 [m]	DC	ROBERT
930.0 [m]	DC	ROBERT
960.0 [m]	DC	ROBERT
990.0 [m]	DC	ROBERT
1020.0 [m]	DC	ROBERT
1050.0 [m]	DC	ROBERT
1080.0 [m]	DC	ROBERT
1110.0 [m]	DC	ROBERT
1140.0 [m]	DC	ROBERT
1170.0 [m]	DC	ROBERT
1200.0 [m]	DC	ROBERT
1230.0 [m]	DC	ROBERT
1260.0 [m]	DC	ROBERT
1290.0 [m]	DC	ROBERT
1320.0 [m]	DC	ROBERT
1350.0 [m]	DC	ROBERT
1380.0 [m]	DC	ROBERT
1400.0 [m]	DC	ROBERT
1410.0 [m]	DC	ROBERT
1420.0 [m]	DC	ROBERT
1480.0 [m]	DC	ROBERT
1490.0 [m]	DC	ROBERT
1500.0 [m]	DC	ROBERT
1510.0 [m]	DC	ROBERT
1520.0 [m]	DC	ROBERT
1530.0 [m]	DC	ROBERT
1540.0 [m]	DC	ROBERT
1550.0 [m]	DC	ROBERT
1560.0 [m]	DC	ROBERT
1570.0 [m]	DC	ROBERT
1580.0 [m]	DC	ROBERT
1590.0 [m]	DC	ROBERT



1600.0	[m]	DC	ROBERT
1610.0	[m]	DC	ROBERT
1620.0	[m]	DC	ROBERT
1630.0	[m]	DC	ROBERT
1640.0	[m]	DC	ROBERT
1650.0	[m]	DC	ROBERT
1660.0	[m]	DC	ROBERT
1670.0	[m]	DC	ROBERT
1680.0	[m]	DC	ROBERT
1690.0	[m]	DC	ROBERT
1700.0	[m]	DC	ROBERT
1710.0	[m]	DC	ROBERT
1720.0	[m]	DC	ROBERT
1730.0	[m]	DC	ROBERT
1740.0	[m]	DC	ROBERT
1750.0	[m]	DC	ROBERT
1760.0	[m]	DC	ROBERT
1770.0	[m]	DC	ROBERT
1780.0	[m]	DC	ROBERT
1790.0	[m]	DC	ROBERT
1800.0	[m]	DC	ROBERT
1810.0	[m]	DC	ROBERT
1820.0	[m]	DC	ROBERT
1840.0	[m]	DC	ROBERT
1860.0	[m]	DC	ROBERT
1880.0	[m]	DC	ROBERT
1900.0	[m]	DC	ROBERT
1920.0	[m]	DC	ROBERT
1940.0	[m]	DC	ROBERT
1960.0	[m]	DC	ROBERT
1980.0	[m]	DC	ROBERT
2000.0	[m]	DC	ROBERT
2020.0	[m]	DC	ROBERT
2040.0	[m]	DC	ROBERT
2060.0	[m]	DC	ROBERT
2080.0	[m]	DC	ROBERT
2100.0	[m]	DC	ROBERT
2120.0	[m]	DC	ROBERT
2140.0	[m]	DC	ROBERT
2160.0	[m]	DC	ROBERT



2170.0	[m]	DC	ROBERT
2182.0	[m]	DC	ROBERT
2194.0	[m]	DC	ROBERT
2206.0	[m]	DC	ROBERT
2218.0	[m]	DC	ROBERT
2230.0	[m]	DC	ROBERT
2242.0	[m]	DC	ROBERT
2254.0	[m]	DC	ROBERT
2266.0	[m]	DC	ROBERT
2278.0	[m]	DC	ROBERT
2286.5	[m]	SWC	ROBERT
2290.0	[m]	DC	ROBERT
2302.0	[m]	DC	ROBERT
2305.5	[m]	SWC	ROBERT
2314.0	[m]	DC	ROBERT
2326.0	[m]	DC	ROBERT
2338.0	[m]	DC	ROBERT
2350.0	[m]	DC	ROBERT
2362.0	[m]	DC	ROBERT
2374.0	[m]	DC	ROBERT
2386.0	[m]	DC	ROBERT
2398.0	[m]	DC	ROBERT
2410.0	[m]	DC	ROBERT
2415.6	[m]	SWC	ROBERT
2422.0	[m]	DC	ROBERT
2434.0	[m]	DC	ROBERT
2446.0	[m]	DC	ROBERT
2458.0	[m]	DC	ROBERT
2470.0	[m]	DC	ROBERT
2472.8	[m]	SWC	ROBERT
2482.0	[m]	DC	ROBERT
2494.0	[m]	DC	ROBERT
2506.0	[m]	DC	ROBERT
2518.0	[m]	DC	ROBERT
2530.0	[m]	DC	ROBERT
2542.0	[m]	DC	ROBERT
2554.0	[m]	DC	ROBERT
2566.0	[m]	DC	ROBERT
2578.0	[m]	DC	ROBERT
2581.1	[m]	SWC	ROBERT



2590.0	[m]	DC	ROBERT
2602.0	[m]	DC	ROBERT
2610.8	[m]	SWC	ROBERT
2614.0	[m]	DC	ROBERT
2626.0	[m]	DC	ROBERT
2653.0	[m]	DC	ROBERT
2665.0	[m]	DC	ROBERT
2677.0	[m]	DC	ROBERT
2689.0	[m]	DC	ROBERT
2701.0	[m]	DC	ROBERT
2708.0	[m]	SWC	ROBERT
2713.0	[m]	DC	ROBERT
2725.0	[m]	DC	ROBERT
2737.0	[m]	DC	ROBERT
2738.0	[m]	SWC	ROBERT
2749.0	[m]	DC	ROBERT
2761.0	[m]	DC	ROBERT
2768.3	[m]	SWC	ROBERT
2773.0	[m]	DC	ROBERT
2776.8	[m]	SWC	ROBERT
2783.2	[m]	SWC	ROBERT
2785.0	[m]	DC	ROBERT
2790.4	[m]	SWC	ROBERT
2797.0	[m]	DC	ROBERT
2802.2	[m]	SWC	ROBERT
2809.0	[m]	DC	ROBERT
2821.0	[m]	DC	ROBERT
2833.0	[m]	DC	ROBERT
2856.2	[m]	SWC	ROBERT
2857.0	[m]	DC	ROBERT
2869.0	[m]	DC	ROBERT
2881.0	[m]	DC	ROBERT
2893.0	[m]	DC	ROBERT
2905.0	[m]	DC	ROBERT
2912.2	[m]	SWC	ROBERT
2917.0	[m]	DC	ROBERT
2929.0	[m]	DC	ROBERT
2941.0	[m]	DC	ROBERT
2953.0	[m]	DC	ROBERT
2965.0	[m]	DC	ROBERT



2970.0	[m]	SWC	ROBERT
2977.0	[m]	DC	ROBERT
2989.0	[m]	DC	ROBERT
3001.0	[m]	DC	ROBERT
3013.0	[m]	DC	ROBERT
3025.0	[m]	DC	ROBERT
3037.0	[m]	DC	ROBERT
3049.0	[m]	DC	ROBERT
3061.0	[m]	DC	ROBERT
3073.0	[m]	DC	ROBERT
3085.0	[m]	DC	ROBERT
3097.0	[m]	DC	ROBERT
3109.0	[m]	DC	ROBERT
3121.0	[m]	DC	ROBERT
3133.0	[m]	DC	ROBERT
3142.0	[m]	DC	ROBERT
3151.0	[m]	DC	ROBERT

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
272	NORDLAND GP
272	UNDIFFERENTIATED
359	SOTBAKKEN GP
359	TORSK FM
513	NYGRUNNEN GP
513	KVITING FM
558	ADVENTDALEN GP
558	KOLMULE FM
1473	HEKKINGEN FM
1537	FUGLEN FM
1539	KAPP TOSCANA GP
1539	STØ FM
1553	NORDMELA FM
1636	TUBÅEN FM
1675	FRUHOLMEN FM
1909	SNADD FM
2785	SASSENDALEN GP
2785	KOBBE FM



Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMI GR	2337	2860
FMI GR	2980	2980
MDT GR	2199	2967
MSCT GR	2203	2970
MSIP HRLA PEX GR	2074	2980
MSIP PEX GR	415	2145
MWD - GR RES APWD DIR	1470	2171
MWD - GR RES DIR	298	1470
MWD - RES GR APWD DEN CAL RES NE	2170	3152
USIT CBL	1404	2170
VSP GR	785	2980

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	36	321.0	42	329.0	0.00	
SURF.COND.	20	589.0	26	597.0	1.36	FIT
INTERM.	13 3/8	1462.0	17 1/2	1470.0	0.00	
LINER	9 5/8	2170.0	12 1/4	2171.0	2.40	FIT
OPEN HOLE		3152.0	8 1/2	3152.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
597	1.10	8.0		Glydril	
1039	1.13	11.0		Glydril	
1470	1.15	12.0		Glydril	
1470	1.16	13.0		Glydril	
2171	1.16	12.0		Glydril	
2218	1.20	13.0		Glydril	
3152	1.22	13.0		Glydril	

