

**General information**

Wellbore name	34/7-28
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	34/7-28
Seismic location	E86R97- INLINE 1208 & X-LINE 1107
Production licence	089
Drilling operator	Saga Petroleum ASA
Drill permit	921-L
Drilling facility	TRANSOCEAN LEADER
Drilling days	63
Entered date	30.12.1997
Completed date	02.03.1998
Release date	02.03.2000
Publication date	28.02.2008
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	24.0
Water depth [m]	304.0
Total depth (MD) [m RKB]	3005.0
Final vertical depth (TVD) [m RKB]	3005.0
Maximum inclination [°]	1.7
Bottom hole temperature [°C]	104
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	61° 28' 7.55" N
EW degrees	2° 1' 5.61" E
NS UTM [m]	6815558.64
EW UTM [m]	447682.94
UTM zone	31
NPDID wellbore	3282



Wellbore history

General

Well 34/7-28 is located in the Tampen area in the Northern North Sea. It was drilled on a prospect situated north east of the Statfjord Nord field and east of the Snorre field. The well tested the NW III prospect, which was defined as a stratigraphic trap with pinch out of the Draupne Formation. The sands in the Draupne Formation were expected to be erosional products from the Snorre block positioned in a north east direction of the well.

Operations and results

Wildcat well 34/7-28 was spudded with the semi-submersible installation Transocean Leader on 30 December 1997. The well was initially drilled to a total depth of 1267 m in the 12 1/4" section where the decision was made to plug and abandon the well. The abandonment was due to concerns over the integrity of the 18 3/4" wellhead housing, which had suffered damage during BOP latching procedures. At this time a total of 24.9 days had been spent on the well. With the rig moved ca. 25 m NNE from the original location, well 34/7-28 was re-spudded on 24 January 1998 and drilled to TD at 3005 m in the Middle Jurassic Drake Formation. The final 34/7-28 well was drilled with sea water and bentonite hi-vis sweeps down to 1300 m, with silicate mud from 1300 m to 2165 m, and with KCl/glycol mud ("Aquaicol D" polypropylene glycols) from 2165 m to TD.

Apart from the Utsira Formation only traces of sand was penetrated above top Jurassic. Sandstones were encountered in the prospective level of the Viking Group. The uppermost sand at 2666 m was a 3 m thick Intra Draupne Formation sandstone overlying 10 m of Heather Formation shale. The lower sand at 2679 m was a 16 m thick Intra Heather Formation sandstone, interpreted as a gravitation deposit. Both sandstones were penetrated at shallower depth than the oil-water contact in Statfjord Nord and both were water filled. An undifferentiated sequence of water filled Rannoch/Etive Formations sandstones was penetrated from 2805 to 2972 m. Pressure measurements showed that the sands in the Viking group were in communication, but they were not in communication with the sands in the Brent Group. From this it was concluded that the base seal was intact, and the fault to the south west was sealing. Weak shows were described in the core from the Intra Heather Formation sandstone, but subsequent geochemical analyses in the laboratory were not able to confirm this. This was the only indication of hydrocarbons in the well.

Two cores were cut in the Intra Heather Formation sandstone and Heather Formation shale from 2668-2694 m and 2694-2726.5 m. The sands were massive and had good visible porosity. MDT pressure tests were carried out in the Viking Group and in the Brent Group. No fluid sampling was attempted.

The well was permanently abandoned on 3 March 1998 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]
1310.00	2924.00



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	2668.0	2692.7	[m]
2	2694.0	2725.0	[m]

Total core sample length [m]	55.7
Cores available for sampling?	YES

Core photos



2668-2673m



2673-2678m



2678-2683m



2683-2688m



2688-2692m



2694-2699m



2699-2704m



2704-2709m



2709-2714m



2714-2719m



2719-2724m



2724-2725m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1330.0	[m]	DC	UOS
1370.0	[m]	DC	UOS



1410.0 [m]	DC	UOS
1450.0 [m]	DC	UOS
1490.0 [m]	DC	UOS
1530.0 [m]	DC	UOS
1570.0 [m]	DC	UOS
1610.0 [m]	DC	UOS
1650.0 [m]	DC	UOS
1690.0 [m]	DC	UOS
1730.0 [m]	DC	UOS
1770.0 [m]	DC	UOS
1810.0 [m]	DC	UOS
1850.0 [m]	DC	UOS
1880.0 [m]	DC	UOS
1900.0 [m]	DC	UOS
1920.0 [m]	DC	UOS
1940.0 [m]	DC	UOS
1960.0 [m]	DC	UOS
1980.0 [m]	DC	UOS
2000.0 [m]	DC	UOS
2020.0 [m]	DC	UOS
2040.0 [m]	DC	UOS
2065.0 [m]	DC	UOS
2080.0 [m]	DC	UOS
2100.0 [m]	DC	UOS
2120.0 [m]	DC	UOS
2140.0 [m]	DC	UOS
2155.0 [m]	DC	UOS
2180.0 [m]	DC	UOS
2200.0 [m]	DC	UOS
2220.0 [m]	DC	UOS
2240.0 [m]	DC	UOS
2260.0 [m]	DC	UOS
2280.0 [m]	DC	UOS
2295.0 [m]	DC	UOS
2320.0 [m]	DC	UOS
2340.0 [m]	DC	UOS
2360.0 [m]	DC	UOS
2380.0 [m]	DC	UOS
2400.0 [m]	DC	UOS
2420.0 [m]	DC	UOS



2440.0	[m]	DC	UOS
2460.0	[m]	DC	UOS
2480.0	[m]	DC	UOS
2500.0	[m]	DC	UOS
2520.0	[m]	DC	UOS
2540.0	[m]	DC	UOS
2555.0	[m]	DC	UOS
2580.0	[m]	DC	UOS
2600.0	[m]	DC	UOS
2620.0	[m]	DC	UOS
2640.0	[m]	DC	UOS
2660.0	[m]	DC	UOS
2668.0	[m]	C	NETW
2669.0	[m]	C	NETW
2670.0	[m]	C	NETW
2671.0	[m]	C	NETW
2672.0	[m]	C	NETW
2673.0	[m]	C	NETW
2674.0	[m]	C	NETW
2675.0	[m]	C	NETW
2676.0	[m]	C	NETW
2677.0	[m]	C	NETW
2679.0	[m]	C	NETW
2680.0	[m]	C	NETW
2681.0	[m]	C	NETW
2684.0	[m]	C	NETW
2686.0	[m]	C	NETW
2687.0	[m]	C	NETW
2688.0	[m]	C	NETW
2690.0	[m]	C	NETW
2691.0	[m]	C	NETW
2692.0	[m]	C	NETW
2694.0	[m]	C	NETW
2695.0	[m]	C	NETW
2696.0	[m]	DC	NETW
2697.0	[m]	DC	NETW
2698.0	[m]	DC	NETW
2703.0	[m]	DC	NETW
2704.0	[m]	DC	NETW
2706.0	[m]	DC	NETW



2707.0	[m]	DC	NETW
2709.0	[m]	DC	NETW
2711.0	[m]	DC	NETW
2712.0	[m]	C	NETW
2713.0	[m]	C	NETW
2715.0	[m]	C	NETW
2716.0	[m]	C	NETW
2717.0	[m]	C	NETW
2718.0	[m]	C	NETW
2721.0	[m]	C	NETW
2722.0	[m]	C	NETW
2723.0	[m]	C	NETW
2724.0	[m]	C	NETW
2726.0	[m]	DC	UOS
2735.0	[m]	DC	UOS
2744.0	[m]	DC	UOS
2750.0	[m]	DC	UOS
2759.0	[m]	DC	UOS
2768.0	[m]	DC	UOS
2777.0	[m]	DC	UOS
2786.0	[m]	DC	UOS
2792.0	[m]	DC	UOS
2801.0	[m]	DC	UOS
2807.0	[m]	DC	UOS
2816.0	[m]	DC	UOS
2825.0	[m]	DC	UOS
2834.0	[m]	DC	UOS
2843.0	[m]	DC	UOS
2852.0	[m]	DC	UOS
2861.0	[m]	DC	UOS
2870.0	[m]	DC	UOS
2888.0	[m]	DC	UOS
2897.0	[m]	DC	UOS
2906.0	[m]	DC	UOS
2915.0	[m]	DC	UOS
2924.0	[m]	DC	UOS
2933.0	[m]	DC	UOS
2942.0	[m]	DC	UOS
2951.0	[m]	DC	UOS
2960.0	[m]	DC	UOS



2969.0	[m]	DC	UOS
2978.0	[m]	DC	UOS
2987.0	[m]	DC	UOS
2996.0	[m]	DC	UOS
3005.0	[m]	DC	UOS

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
328	NORDLAND GP
1120	UTSIRA FM
1128	HORDALAND GP
1683	ROGALAND GP
1683	BALDER FM
1691	LISTA FM
1865	SHETLAND GP
1865	JORSALFARE FM
2109	KYRRE FM
2654	CROMER KNOLL GP
2654	SOLA FM
2658	MIME FM
2666	VIKING GP
2666	INTRA DRAUPNE FM SS
2669	HEATHER FM
2679	INTRA HEATHER FM SS
2695	HEATHER FM
2792	BRENT GP
2792	TARBERT FM
2805	UNDIFFERENTIATED
2972	DUNLIN GP
2972	DRAKE FM

Geochemical information

Document name	Document format	Document size [MB]
3282_1	pdf	0.14
3282_2	pdf	4.49



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

Document name	Document format	Document size [MB]
3282 34 7 28 COMPLETION REPORT	pdf	35.23

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST GR	2653	3000
FMI DSI NGT	2154	3005
MDT GR	2667	2957
MWD - DIR	328	379
MWD - GR RES DIR	379	3005
PEX HALS	2154	3005
VSP	1410	3000

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	376.0	36	380.0	0.00	LOT
SURF.COND.	13 3/8	1293.0	17 1/2	1295.0	1.69	LOT
INTERM.	9 5/8	2154.0	12 1/4	2155.0	1.78	LOT
OPEN HOLE		3005.0	8 1/2	3005.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1300	1.37	13.0		WATER BASED	
1964	1.59	18.0		WATER BASED	
2165	1.59	21.0		WATER BASED	
2425	1.58	34.0		WATER BASED	
2692	1.58	32.0		WATER BASED	
2711	1.58	29.0		WATER BASED	
3005	1.58			WATER BASED	



**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]
3282 Formation pressure (Formasjonstrykk)	PDF	0.22

