General information

Wellbore name	34/10-18
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	34/10-18
Seismic location	ST 8214 - 402 SP 190
Production licence	050
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	382-L
Drilling facility	ROSS ISLE
Drilling days	46
Entered date	16.07.1983
Completed date	30.08.1983
Release date	30.08.1985
Publication date	30.09.2011
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	22.0
Water depth [m]	141.0
Total depth (MD) [m RKB]	3025.0
Final vertical depth (TVD) [m RKB]	3024.0
Maximum inclination [°]	5.7
Bottom hole temperature [°C]	90
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	61° 14' 22.48'' N
EW degrees	2° 3' 18.83'' E
NS UTM [m]	6790001.13
EW UTM [m]	449285.34
UTM zone	31
NPDID wellbore	23

Wellbore history

General

Well 34/10-18 is located in the Tampen Spur area, south of the Vigdis Field and west-north-west of the Gullfaks Field. The primary objective was the Brent Group sandstones of Middle Jurassic age. Secondary objectives were Early Jurassic Cook and Statfjord Formation sandstones.

Operations and results

Wildcat well 34/10-18 was spudded with the semi-submersible installation Ross Isle on 17 July 1983. A 12 1/4" pilot hole was drilled from the 30" casing shoe to 765 m to check for shallow gas. No shallow gas was seen, but lost circulation occurred in shallow sand lenses when the pilot was underreamed to 26". A 17 1/2" hole was drilled and logged to 2024 m. Two joints of 13 3/8" casing were dropped in the hole. The hole was cemented back to 1882 m and sidetracked from 1900 m and drilled without significant problems to TD at 3025 m in the Early Jurassic Statfjord Formation. The well was drilled with spud mud down to 765 m and with gel/Lignosulphonate mud from 765 m to TD.

No live oil was seen in the well, but a 3.5 m unproductive oil-zone was encountered in a, sandy/marly and cemented limestone at the base of a very thin Cromer Knoll sequence (Mime Formation). The average porosity was 24.3% and the average water saturation was 53.4%, but due to tight formation the RFT was not able to obtain any pressure points in this zone. The permeability range was 0.1 to 1 mD. Only residual hydrocarbons were encountered in the Brent sandstones. Here, the logs indicated an average water saturation of 95% and an average porosity of 24.2% in the net sand. The RFT plot suggested a water gradient of 1.00 g/cc in the Brent Group. Weak oil shows typically described as "hydrocarbon fluorescence in sandy tuffaceous material" were recorded in the Balder Formation.

Three cores were cut in the well. Core 1 was cut in the Early Cretaceous and into the Upper Jurassic and core 2 in the Late Jurassic Heather Formation. Core 3 was cut in the Middle Jurassic Tarbert Formation. No wire line fluid samples were taken.

The well was permanently abandoned on 30 August 1983 as a well with shows.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
230.00	3025.00

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	2344.0	2357.0	[m]
2	2361.0	2368.0	[m]
3	2376.5	2394.0	[m]

Total core sample length [m]	37.5
Cores available for sampling?	YES

Core photos


2343-2347m


2347-2351m


2351-2355m


2355-2357m


2361-2365m


2365-2368m


2376-2380m


2380-2384m


2384-2388m


2388-2392m


2392-2395m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
2362.0	[m]	C	GEOCH
2362.5	[m]	C	GEOCH
2362.8	[m]	C	GEOCH
2363.5	[m]	C	GEOCH
2364.0	[m]	C	GEOCH

2364.5	[m]	C	GEOCH
2365.0	[m]	C	GEOCH
2365.5	[m]	C	GEOCH
2365.9	[m]	C	GEOCH
2366.4	[m]	C	GEOCH
2366.8	[m]	C	GEOCH
2367.0	[m]	C	GEOCH
2367.3	[m]	C	GEOCH
2367.6	[m]	C	GEOCH

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
163	NORDLAND GP
983	UTSIRA FM
994	HORDALAND GP
1180	NO FORMAL NAME
1246	NO FORMAL NAME
1406	NO FORMAL NAME
1470	NO FORMAL NAME
1690	ROGALAND GP
1690	BALDER FM
1750	LISTA FM
1878	SHETLAND GP
1878	JORSALFARE FM
2107	KYRRE FM
2337	CROMER KNOLL GP
2337	RØDBY FM
2340	MIME FM
2351	VIKING GP
2351	DRAUPNE FM
2355	HEATHER FM
2373	BRENT GP
2373	TARBERT FM
2412	NESS FM
2495	ETIVE FM
2524	RANNOCH FM
2595	BROOM FM
2604	DUNLIN GP

2604	DRAKE FM
2688	COOK FM
2785	BURTON FM
2843	AMUNDSEN FM
2978	STATFJORD GP

Geochemical information

Document name	Document format	Document size [MB]
23_1	pdf	1.09
23_2	pdf	0.10
23_3	pdf	2.46
23_4	pdf	11.53
23_5	pdf	15.17
23_6	pdf	16.23
23_7	pdf	12.20

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

Document name	Document format	Document size [MB]
23_01_WDSS_General_Information	pdf	0.18
23_02_WDSS_completion_log	pdf	0.30

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

Document name	Document format	Document size [MB]
23_34_10_18_Completion_log	pdf	1.75
23_34_10_18_Completion_Report	PDF	22.91
23_34_10_18_Formation_Evalution	pdf	4.68
23_34_10_18_Geokjemisk_Analyse	pdf	0.06
23_34_10_18_Stratigraphical_Paleontological_Report	pdf	10.07
23_34_10_18_Wellsite_Gas_Analysis	pdf	0.10

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL	162	2007
CST	2108	3008
ISF LSS MSFL GR	155	3024
LDL CNL GR CAL	227	3025
RFT	2330	2543
SHDT	2007	3025

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	226.5	36	227.5	0.00	LOT
SURF.COND.	20	747.0	26	765.0	1.57	LOT
INTERM.	13 3/8	2008.0	17 1/2	2024.0	1.80	LOT
OPEN HOLE		3025.0	12 1/4	3025.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
270	1.05	47.0		waterbased	
750	1.09	50.0		waterbased	
1780	1.11	62.0		waterbased	
2050	1.32	54.0		waterbased	
2330	1.65	45.0		waterbased	
2660	1.58	48.0		waterbased	