General information

Wellbore name	30/6-8
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	30/6-8
Seismic location	703 - 125 SP 205
Production licence	053
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	333-L
Drilling facility	TREASURE SEEKER
Drilling days	53
Entered date	15.06.1982
Completed date	06.08.1982
Release date	06.08.1984
Publication date	29.03.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	121.0
Total depth (MD) [m RKB]	3600.0
Final vertical depth (TVD) [m RKB]	3600.0
Bottom hole temperature [°C]	104
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	60° 32' 11.92'' N
EW degrees	2° 58' 20.59'' E
NS UTM [m]	6711336.90
EW UTM [m]	498484.70
UTM zone	31
NPDID wellbore	77

Wellbore history

General

Well 30/6-8 was drilled on the Epsilon structure between the Oseberg and Brage discoveries. At the well location seismic mapping indicated structural closure at Brent Group level and below. The primary objectives were to find hydrocarbon accumulations within the Brent Group and the overlying clastic wedge of Bathonian-Callovian age. Other Jurassic sandstones were also considered as prospective targets. The well was planned to reach ca 3500 m total depth, 75m into the Statfjord Group.

Operations and results

Wildcat well 30/6-8 was spudded with the semi-submersible installation Treasure Seeker on 15 June 1982 and drilled to TD at 3600 m in the Early Jurassic Statfjord Formation. A 17 1/2" pilot hole was drilled from 232 m to 950 m. No shallow gas was reported. No serious problems occurred while drilling. The well was drilled with seawater and hi-vis pills down to 232 m, with seawater/hi-vis pills and Drispac from 232 m to 955 m, and with KCl/polymer mud from 955 m to TD.

No hydrocarbon bearing sandstone intervals were encountered in this well. The only hydrocarbon indications were fluorescence and cut fluorescence in sandstone cuttings at 3560 to 3563 m in the Statfjord Group and trace fluorescence, no cut, in sidewall cores at 3147 and 3154 m in the Etive Formation. The well penetrated an Intra Heather Formation Sandstone interval (2445.5 - 2523.5 m) with 10.6 m net with average porosity of 15.7 %. A Callovian wedge (2712.5 - 3024 m) was encountered by the well, but no clastic sediments with reservoir properties were found within the wedge. A total of 147 m of Brent Group (3024 - 3171 m) sediments were encountered. Net sand was 45.9 m with an average porosity of 16.1 %. Net sand within the Cook Formation (3349.5 - 3404.5 m) was 2.8 m with average porosity of 15.8 %. The well stopped 73 m into the Statfjord Formation (3532 -3600 m) of which 21.3 m was sand with an average porosity of 10.6 %.

The pressure regimes of the four different water saturated reservoirs were calculated from RFT-measurements. The "Intra Heather Sand" shows a normal pressure of approx. 1.03 rd. The Brent, Cook and Statfjord sand intervals have overpressures of respectively 1.08 rd, 1.15 rd and 1.16 rd.

Four cores were cut. Core 1 was cut in the Late Jurassic Heather Formation from 2768.0 to 2786.0 m. Cores 2 and 3 were cut from 3033 to 3069.1 m in the Tarbert and Ness formations. Core 4 was cut from 3156 to 3169.9 m in the Etive Formation. No wire line fluid samples were taken.

The well was permanently abandoned on 6 August 1982 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]
240.00	3593.00

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	2768.0	2784.6	[m]
2	3033.0	3050.9	[m]
3	3051.1	3067.7	[m]
4	3156.0	3168.7	[m]

Total core sample length [m]	63.8
Cores available for sampling?	YES

Core photos


2768-2772m


2772-2776m


2776-2780m


2780-2784m


2784-2785m


3033-3037m


3037-3041m


3041-3045m


3045-3049m


3049-3050m


3051-3055m


3055-3059m


3059-3063m


3063-3067m


3067-3067m











3156-3160m 3160-3164m 3164-3168m 3168-3168m 2035-2941m


2931-2933m


2946-2951m


2964-2964m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
250.0	[m]	DC	RRI
450.0	[m]	DC	RRI
650.0	[m]	DC	RRI
1050.0	[m]	DC	RRI
1250.0	[m]	DC	RRI
1450.0	[m]	DC	RRI
1650.0	[m]	DC	RRI
1850.0	[m]	DC	RRI
2045.0	[m]	DC	RRI
2245.0	[m]	DC	RRI
2300.0	[m]	SWC	RRI
2312.0	[m]	SWC	RRI
2370.0	[m]	DC	RRI
2380.0	[m]	DC	RRI
2383.0	[m]	SWC	RRI
2390.0	[m]	SWC	RRI
2395.0	[m]	SWC	RRI
2400.0	[m]	DC	RRI
2404.0	[m]	SWC	RRI
2410.0	[m]	SWC	RRI
2416.0	[m]	SWC	RRI
2420.0	[m]	DC	RRI
2436.0	[m]	SWC	RRI
2440.0	[m]	DC	RRI
2449.5	[m]	SWC	RRI
2455.0	[m]	SWC	RRI
2461.5	[m]	SWC	RRI

2484.0	[m]	SWC	RRI
2508.5	[m]	SWC	RRI
2538.0	[m]	SWC	RRI
2558.0	[m]	SWC	RRI
2567.5	[m]	SWC	RRI
2574.0	[m]	SWC	RRI
2593.0	[m]	SWC	RRI
2600.0	[m]	DC	RRI
2629.5	[m]	SWC	RRI
2645.5	[m]	SWC	RRI
2664.5	[m]	SWC	RRI
2678.8	[m]	SWC	RRI
2691.5	[m]	SWC	RRI
2700.5	[m]	SWC	RRI
2710.0	[m]	SWC	RRI
2719.5	[m]	SWC	RRI
2768.8	[m]	C	RRI
2773.6	[m]	C	RRI
2776.5	[m]	C	RRI
2784.6	[m]	C	RRI
2792.0	[m]	SWC	RRI
2815.5	[m]	SWC	RRI
2840.0	[m]	DC	RRI
2860.0	[m]	SWC	RRI
2880.5	[m]	SWC	RRI
2940.0	[m]	DC	RRI
2941.5	[m]	SWC	RRI
2953.5	[m]	SWC	RRI
2966.5	[m]	SWC	RRI
2980.0	[m]	SWC	RRI
3028.5	[m]	SWC	RRI
3033.8	[m]	C	RRI
3033.9	[m]	C	RRI
3038.1	[m]	C	RRI
3046.4	[m]	C	RRI
3056.6	[m]	C	RRI
3062.2	[m]	C	RRI
3065.3	[m]	C	RRI
3072.5	[m]	SWC	RRI
3079.5	[m]	SWC	RRI

3099.0	[m]	SWC	RRI
3114.5	[m]	SWC	RRI
3120.0	[m]	DC	RRI
3123.5	[m]	SWC	RRI
3135.5	[m]	SWC	RRI
3147.5	[m]	SWC	RRI
3167.8	[m]	C	RRI
3168.7	[m]	C	RRI
3173.0	[m]	SWC	RRI
3182.0	[m]	SWC	RRI
3228.5	[m]	SWC	RRI
3230.0	[m]	DC	RRI
3249.5	[m]	SWC	RRI
3263.5	[m]	SWC	RRI
3309.0	[m]	SWC	RRI
3330.0	[m]	DC	RRI
3335.0	[m]	SWC	RRI
3355.5	[m]	SWC	RRI
3357.5	[m]	SWC	RRI
3386.0	[m]	SWC	RRI
3405.0	[m]	SWC	RRI
3418.5	[m]	SWC	RRI
3430.0	[m]	DC	RRI
3463.0	[m]	SWC	RRI
3476.0	[m]	SWC	RRI
3492.0	[m]	SWC	RRI
3510.0	[m]	DC	RRI
3515.0	[m]	SWC	RRI
3585.0	[m]	SWC	RRI

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
146	NORDLAND GP
675	UTSIRA FM
863	HORDALAND GP
1916	ROGALAND GP
1916	BALDER FM
2002	SELE FM

2106	LISTA FM
2186	VÅLE FM
2202	SHETLAND GP
2304	CROMER KNOLL GP
2380	VIKING GP
2380	DRAUPNE FM
2446	HEATHER FM
3024	BRENT GP
3024	TARBERT FM
3067	NESS FM
3135	ETIVE FM
3171	DUNLIN GP
3171	DRAKE FM
3350	COOK FM
3405	BURTON FM
3471	AMUNDSEN FM
3532	STATFJORD GP

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

Document name	Document format	Document size [MB]
77_01_WDSS_General_Information	pdf	0.16
77_02_WDSS_completion_log	pdf	0.24

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL	787	2403
CST	1150	1996
CST	2012	2410
CST	2395	2416
CST	2414	2719
CST	2428	3099
CST	2750	2719
CST	3135	3595
HDT	941	3605
ISF LSS	120	3604
LDT CNL	941	3605

RFT	2452	3597
VELOCITY	670	3587

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	232.0	36	232.0	0.00	LOT
SURF.COND.	20	941.0	26	955.0	1.59	LOT
INTERM.	13 3/8	2403.0	17 1/2	2414.0	1.79	LOT
OPEN HOLE		3600.0	12 1/4	3600.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
980	1.25	55.0		waterbased	
1350	1.25	44.0		waterbased	
1960	1.35	44.0		waterbased	
2180	1.45	22.0		waterbased	
2420	1.23	35.0		waterbased	
3100	1.23	35.0		waterbased	
3430	1.27	12.0		waterbased	
3560	1.32	40.0		waterbased	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
2769.00	[m]
2772.00	[m]
2778.00	[m]
2783.00	[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]
77_Formation_pressure_(Formasjonstrykk)	pdf	0.23