General information

Wellbore name	30/6-17 A
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	OSEBERG
Discovery	30/6-17 R
Well name	30/6-17
Seismic location	NH 82 - 214 cell point 424
Production licence	053
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	504-L
Drilling facility	TREASURE HUNTER
Drilling days	43
Entered date	04.02.1986
Completed date	18.03.1986
Plugged and abondon date	18.03.1986
Release date	18.03.1988
Publication date	01.01.2012
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	NO
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	COOK FM
Kelly bushing elevation [m]	25.0
Water depth [m]	110.0
Total depth (MD) [m RKB]	2686.0
Final vertical depth (TVD) [m RKB]	2528.0
Maximum inclination [°]	2.8
Bottom hole temperature [°C]	104
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	60° 34' 15.77'' N
EW degrees	2° 44' 59.84'' E
NS UTM [m]	6715194.48

EW UTM [m]	486293.49
UTM zone	31
NPDID wellbore	894

Wellbore history

General

Well 30/6-17 A is a sidetrack to well 30/6-17 R on the western side of the Oseberg Field. Well 30/6-17 R did not penetrate the Statfjord Formation in a high structural position as planned. The sidetrack was drilled to fulfil the objective. Secondary objectives were to appraise the Cook Formation discovery and the gas sands around BCU found in 30/6-17 R. Finally, a minifracture test would be conducted to obtain minimum-horizontal-stress data that could improve drilling efficiency in Eocene clays in the Oseberg area. Prognosed depth of the well was 3532 m (2690 m TVD), 50 m into the Statfjord Formation.

Operations and results

Well 30/6-17 was re-entered with the semi-submersible installation Treasure Hunter on 4 February 1986. Sidetrack 30/6-17 A was kicked off due west from below the 13 3/8" casing, with kick off point at 1633 and drilled to TD at 2686 m (2528 m TVD) in the Early Jurassic Statfjord Formation. Drilling proceeded without significant problems. It was drilled with KCl/polymer mud from kick off to 2335 m and with NaCl/polymer mud from 2335 m to TD.

The well encountered a gas bearing Cook Formation while the Statfjord Formation was found water bearing. Hydrocarbon shows seen in Tertiary and Cretaceous limestones similar to in 30/6-17 R, and also in a ca 5 meter thick sandstone bed associated with the Base Cretaceous Unconformity. The Cook Formation (2460 - 2488 m, 2357.5-2379 m TVD) is developed as an overall coarsening upward sequence. The grain size is fine to medium at the upper part, becoming very fine to fine with increasing silt content downwards. The whole of the Cook Formation was found gas bearing with a net pay of 27.9 m. No oil/gas contact was thus seen. The average porosity is 24.1% and the average water saturation is 28%. Cut off criteria for petrophysical evaluation was: PHI < 12%, Sw > 60%, Vsh >40%. The Statfjord Formation (2632 to TD), 2487-2528 m TVD) was entirely water bearing. The net sand calculated from logs is 22.1 m with an average porosity of 23.8%.

Seven conventional cores were taken in the well. Core 1 was cut in sandstones and shales at the boundary between the Cretaceous and the Jurassic from 2420 - 2430 m (driller's depth). Cores 2 - 4 were taken in the Cook Formation and the upper part of the Amundsen Formation from 2466 to 2511 m. Cores 5 - 7 were taken in the Statfjord Formation from 2636 m to 2676 m. Due to unfavourable hole conditions no SFT pressure tests or fluid sampling were performed in the well.

The well was permanently abandoned on 18 March 1986 as a gas well.

Testing

No drill stem test was performed. A minifracture test was performed at 1851 - 1852 m in Eocene clays.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1635.00	2685.00

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	2420.0	2427.2	[m]
2	2466.0	2493.8	[m]
3	2493.9	2494.0	[m]
4	2501.0	2511.0	[m]
5	2636.0	2647.7	[m]
6	2649.0	2650.5	[m]
7	2651.0	2674.3	[m]

Total core sample length [m]	81.6
Cores available for sampling?	YES

Core photos


2420-2426m


2426-2427m


2466-2472m


2472-2478m


2478-2484m


2484-2490m


2490-2493m


2493-2494m


2501-2507m


2507-2511m


2636-2642m


2642-2647m


2649-2650m


2651-2657m


2657-2663m


2663-2669m


2669-2674m

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
135	NORDLAND GP
652	UTSIRA FM
876	NO FORMAL NAME
890	HORDALAND GP
942	NO FORMAL NAME
960	NO FORMAL NAME
1280	NO FORMAL NAME
1301	NO FORMAL NAME
1405	NO FORMAL NAME
1463	NO FORMAL NAME
1924	ROGALAND GP
1924	BALDER FM
2008	SELE FM
2094	LISTA FM
2216	VÅLE FM
2235	SHETLAND GP
2235	JORSALFARE FM
2411	UNDEFINED GP
2420	DUNLIN GP
2420	DRAKE FM
2460	COOK FM
2488	AMUNDSEN FM

2632	STATFJORD GP

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

Document name	Document format	Document size [MB]
894_01_WDSS_General_Information	pdf	0.21
894_02_WDSS_completion_log	pdf	0.15

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

Document name	Document format	Document size [MB]
894_30_6_17_A_Completion_log	pdf	1.59
894_30_6_17_A_Completion_report	pdf	31.76

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL CCL GR	1500	2317
CDL CNL CAL	1591	2667
DIL BHC	2311	2675
DIL LSS GR SP	1591	2331
DLL MSFL	2318	2457
VSP	1400	2396

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
INTERM.	13 3/8	1593.0	17 1/2	2397.0	0.00	LOT
INTERM.	9 5/8	2323.0	12 1/4	2335.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
185	1.37	11.0		water based	

1540	1.49	23.0		water based	
1835	1.37	12.0		water based	
2180	1.48	15.0		water based	
2250	1.37	19.0		water based	
2335	1.50	16.0		water based	
2399	1.50	30.0		water based	
2501	1.35	16.0		water based	
2686	1.35	16.0		water based	