



General information

Wellbore name	30/8-1 SR
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	TUNE
Discovery	30/8-1 SR
Well name	30/8-1
Seismic location	VG 91-inline 277 & xline 546
Production licence	190
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	797-L2
Drilling facility	TREASURE SAGA
Drilling days	109
Entered date	14.11.1995
Completed date	01.03.1996
Plugged date	01.03.1996
Plugged and abandon date	01.12.2003
Release date	01.03.1998
Publication date	01.08.2010
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	DRILLING
Content	GAS/CONDENSATE
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	STATFJORD GP
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	26.0
Water depth [m]	96.0
Total depth (MD) [m RKB]	5149.0
Final vertical depth (TVD) [m RKB]	4764.4
Maximum inclination [°]	43.1
Bottom hole temperature [°C]	160
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP



Geodetic datum	ED50
NS degrees	60° 27' 46.93" N
EW degrees	2° 38' 6.53" E
NS UTM [m]	6703193.60
EW UTM [m]	479933.47
UTM zone	31
NPDID wellbore	2719

Wellbore history

**General**

Well 30/8-1 SR is a re-entry of well 30/8-1 S in the Viking Graben of the North Sea, just west of the Oseberg Fields. The objective of the original 30/8-1 S well was to test the hydrocarbon potential of the Jurassic Brent Group and Statfjord Formation with the additional commitment to drill into the Hegre Group or to a maximum depth of 5026 m TVD. Well 30/8-1 S discovered gas/condensate in the Tarbert Formation of the Brent Group, but was suspended on 1 March 1995 due to environmental regulations. The re-entry 30/8-1 SR should complete the programme for 30/8-1 S.

Operations and results

Well 30/8-1 SR was re-entered and spudded with the semi-submersible installation on 14 November 1995 and drilled to TD at 5149 m (4767 m TVD) in the Statfjord Formation. Drilling activities took 9 days more than budget, due mainly to a wear-hole in the casing and fishing for lost logging tools. A core was attempted at core point 5145 m in the Statfjord Formation. After coring to 5149 m the core the BHA was pulled, but both core and barrel was lost in hole. Fishing was unsuccessful and 5149 m became final TD. The well was drilled water based with ANCO 2000 mud from 4668 m to 4710 m and with Ancoterm High Temperature mud from 4710 m to TD.

The Statfjord Formation was the only new formation penetrated by the re-entry. Based on logs and one core gas was identified in the Statfjord Formation down to 4859.0 m (4497 m TVD) (gas-down-to contact). Based on MDT-pressure data, the initial reservoir pressure was interpreted to be 778 Bar at 4696.6 m (4356 m TVD). In the Statfjord Formation a total of 98.0 m (true stratigraphical thickness) net gas pay was interpreted with an average log calculated porosity of 12.2% and an average water saturation of 42.5%. The core data showed an average of 0.26 mD for the horizontal permeability. This is however only for 9.5 meters of the total pay and is therefore not necessarily representative for the whole pay. Very weak oil shows (typical of gas reservoirs) were seen in the core. No significant oil shows were seen on the cuttings samples.

One core was taken at 4716 - 4725.5 m in the Statfjord Formation. A second core was attempted in the Statfjord Formation, but was lost in the hole. No wire line fluid samples were taken.

The well was temporarily abandoned on 1 March 1996 as an untested gas/condensate discovery in the Statfjord Formation. P&A operation of the wellbore was completed 1 December 2003 by Deepseas Delta.

Testing

A production test was attempted in the interval 4700 - 4803 m in the Statfjord Formation. The testing operations were terminated 38.8 days behind budged without fulfilling the test objectives. The main contribution for the budged break was flash setting of the cement inside the 5" liner and twice pulling of the test string due to downhole tool failures (one collapsed seal stem and one wash out in the DST assembly).

Oil samples at the Norwegian Offshore Directorate

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
DST	TEST1B	4796.39	4700.00		17.02.1996 - 02:05	YES

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
122	NORDLAND GP
599	UTSIRA FM
908	NO FORMAL NAME
958	HORDALAND GP
958	SKADE FM
1030	NO FORMAL NAME
1256	NO FORMAL NAME
1304	NO FORMAL NAME
1417	GRID FM
1498	NO FORMAL NAME
2100	ROGALAND GP
2100	BALDER FM
2174	SELE FM
2260	LISTA FM
2410	VÅLE FM
2444	SHETLAND GP
2444	HARDRÅDE FM
2472	JORSALFARE FM
2725	KYRRE FM
3223	BLODØKS FM
3243	SVARTE FM
3361	VIKING GP
3361	HEATHER FM
3433	BRENT GP
3433	TARBERT FM
3774	NESS FM
4092	UNDIFFERENTIATED
4123	DUNLIN GP
4123	DRAKE FM
4450	COOK FM
4464	BURTON FM
4556	AMUNDSEN FM
4691	STATEFJORD GP
4691	NANSEN FM
4729	EIRIKSSON FM



Geochemical information

Document name	Document format	Document size [MB]
2719_1	pdf	0.62
2719_2	pdf	1.87

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

Document name	Document format	Document size [MB]
2719_30_8_1_SR_COMPLETION_REPORT_AND_COMPLETION_LOG	pdf	42.58

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	4700	4803	0.0

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0					

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
LINER	5	5102.0	6	5149.0	0.00	LOT

Drilling mud





Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
365	1.42	26.0		water based	
869	1.83	27.0		water based	
1495	1.74	24.0		water based	
1495	1.74	27.0		water based	
1700	1.74	30.0		water based	
2430	1.83	28.0		water based	
2495	1.91	30.0		water based	
2866	2.04	24.0		water based	
3000	1.74	33.0		water based	
3187	1.87	33.0		water based	
4177	2.04	26.0		water based	
4651	1.91	60.0		water based	
4710	2.02	41.0		water based	
4716	1.91	56.0		water based	
4725	1.91	51.0		water based	
4754	1.91	55.0		water based	
4787	1.91	42.0		water based	
4810	1.91	42.0		water based	
4845	1.91	60.0		water based	
4977	1.91	57.0		water based	
5073	1.91	52.0		water based	
5145	1.91	41.0		water based	
5149	1.91	51.0		water based	