



Generell informasjon

Brønnbane navn	30/8-1 SR
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	TUNE
Funn	30/8-1 SR
Brønn navn	30/8-1
Seismisk lokalisering	VG 91-inline 277 & xline 546
Utvinningstillatelse	190
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	797-L2
Boreinnretning	TREASURE SAGA
Boredager	109
Borestart	14.11.1995
Boreslutt	01.03.1996
Plugget dato	01.03.1996
Plugget og forlatt dato	01.12.2003
Frigitt dato	01.03.1998
Publiseringsdato	01.08.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	YES
Årsak til gjenåpning	DRILLING
Innhold	GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	STATFJORD GP
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	TARBERT FM
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	96.0
Totalt målt dybde (MD) [m RKB]	5149.0
Totalt vertikalt dybde (TVD) [m RKB]	4764.4
Maks inklinasjon [°]	43.1



Temperatur ved bunn av brønnbanen [°C]	160
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	60° 27' 46.93" N
ØV grader	2° 38' 6.53" E
NS UTM [m]	6703193.60
ØV UTM [m]	479933.47
UTM sone	31
NPDID for brønnbanen	2719

Brønnhistorie



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).

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	TEST1B	4796.39	4700.00		17.02.1996 - 02:05	YES



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
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



Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2719_1	pdf	0.62
2719_2	pdf	1.87

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2719_30_8_1_SR_COMPLETION_REPORT_AND_COMPLETION_LOG	pdf	42.58

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	4700	4803	0.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0					

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
LINER	5	5102.0	6	5149.0	0.00	LOT

Boreslam





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 16.5.2024 - 07:39

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
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	