Generell informasjon

Brønnbane navn	25/11-27
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	BREIDABLIKK
Funn	25/11-27 (F-struktur)
Brønn navn	25/11-27
Seismisk lokalisering	3D survey : NH9301-BIN -inline 1354 & xline878
Utvinningstillatelse	169 B2
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1449-L
Boreinnretning	SONGA TRYM
Boredager	25
Borestart	04.05.2013
Boreslutt	29.05.2013
Frigitt dato	29.05.2015
Publiseringsdato	29.05.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	HEIMDAL FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	128.0
Totalt målt dybde (MD) [m RKB]	1890.0
Totalt vertikalt dybde (TVD) [m RKB]	1890.0
Maks inklinasjon [°]	2.4
Temperatur ved bunn av brønnbanen [°C]	79
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	TOR FM

Geodetisk datum	ED50
NS grader	59° 14' 15.09'' N
ØV grader	2° 32' 49.75'' E
NS UTM [m]	6566740.69
ØV UTM [m]	474161.13
UTM sone	31
NPDID for brønnbanen	7179

Brønnhistorie

General

Well 25/11-27 was drilled on the Grane F-structure, ca nine kilometres northeast of the Grane field in the North Sea. The primary objective was to prove petroleum in Paleocene reservoir rocks (the Heimdal Formation), but also to find out if there could be communication with the Grane field in the event of a discovery.

Operations and results

Wildcat well 25/11-27 was spudded with the semi-submersible installation Songa Trym on 4 May 2013 and drilled to TD at 1890 m in the Late Cretaceous Tor Formation. The first attempt to spud failed due a very competent seabed. The re-spud was successful and operations proceeded without further significant problems. No shallow gas was seen. The well was drilled with seawater and hi-vis sweeps down to 1159 m and with XP-07 oil based mud from 1159 m to TD.

Top of the primary target Heimdal Formation was encountered at 1743 m, 10 m shallow to prognosis. The Heimdal Formation contains four sandstones in the upper part, varying in thickness between 2 to 5 meters, and a 39 m thick massive sandstone with top at 1766 m in the lower part. The sandstones were oil bearing with all five sandstones on the same oil gradient. The OWC was clearly defined at 1785 m in the middle of the lower sandstone. The reservoir had excellent properties. Pressure measurements show a highly undersaturated oil with similar properties and the same pressure regime as the main Grane Field reservoir. No oil shows were described in the well other than in the oil-bearing sandstones in the Heimdal Formation.

One core was cut from 1769.4 to 1796.5 m in the lower Heimdal massive sandstone. MDT fluid samples were taken at 1766.5 m (oil of density 0.929 g/cm3) and 1803 m (water).

The well was permanently abandoned on 29 May 2013 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1160.00	1890.00

Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1769.0	1795.5	[m]

Total kjerneprøve lengde [m]	26.5
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1200.0	[m]	DC	FUGRO
1220.0	[m]	DC	FUGRO
1240.0	[m]	DC	FUGRO
1260.0	[m]	DC	FUGRO
1280.0	[m]	DC	FUGRO
1300.0	[m]	DC	FUGRO
1320.0	[m]	DC	FUGRO
1340.0	[m]	DC	FUGRO
1360.0	[m]	DC	FUGRO
1380.0	[m]	DC	FUGRO
1400.0	[m]	DC	FUGRO
1420.0	[m]	DC	FUGRO
1430.0	[m]	DC	FUGRO
1440.0	[m]	DC	FUGRO
1450.0	[m]	DC	FUGRO
1460.0	[m]	DC	FUGRO
1480.0	[m]	DC	FUGRO
1500.0	[m]	DC	FUGRO
1520.0	[m]	DC	FUGRO
1540.0	[m]	DC	FUGRO
1560.0	[m]	DC	FUGRO
1580.0	[m]	DC	FUGRO
1600.0	[m]	DC	FUGRO
1620.0	[m]	DC	FUGRO
1640.0	[m]	DC	FUGRO

1660.0	[m]	DC	FUGRO
1670.0	[m]	DC	FUGRO
1680.0	[m]	DC	FUGRO
1690.0	[m]	DC	FUGRO
1693.0	[m]	DC	FUGRO
1696.0	[m]	DC	FUGRO
1699.0	[m]	DC	FUGRO
1702.0	[m]	DC	FUGRO
1705.0	[m]	DC	FUGRO
1711.0	[m]	DC	FUGRO
1717.0	[m]	DC	FUGRO
1723.0	[m]	DC	FUGRO
1729.0	[m]	DC	FUGRO
1732.0	[m]	DC	FUGRO
1735.0	[m]	DC	FUGRO
1741.0	[m]	DC	FUGRO
1747.0	[m]	DC	FUGRO
1753.0	[m]	DC	FUGRO
1759.0	[m]	DC	FUGRO
1765.0	[m]	DC	FUGRO
1769.5	[m]	DC	FUGRO
1798.0	[m]	DC	FUGRO
1804.0	[m]	DC	FUGRO
1810.0	[m]	DC	FUGRO
1816.0	[m]	DC	FUGRO
1822.0	[m]	DC	FUGRO
1828.0	[m]	DC	FUGRO
1834.0	[m]	DC	FUGRO
1840.0	[m]	DC	FUGRO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
153	NORDLAND GP
664	UTSIRA FM
983	HORDALAND GP
1065	SKADE FM
1107	UNDIFFERENTIATED
1701	ROGALAND GP

1701	BALDER FM
1730	LISTA FM
1743	HEIMDAL FM
1805	LISTA FM
1838	VÅLE FM
1842	SHETLAND GP
1842	EKOFISK FM
1851	TOR FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MDT	1716	1803
MWD - PD VARC8 TELE GVR8	1159	1890
MWD - PD VARC9 TELE	208	1159
PEX MSIP AIT	1150	1896
VSI4 GR	356	1820

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
CONDUCTOR	30	202.0	36	208.0	0.00	
INTERM.	13 3/8	1150.6	17 1/2	1159.0	1.71	LOT
OPEN HOLE		1890.0	12 1/4	1890.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
208	1.03			seawater	
1159	1.03			seawater	
1890	1.28			OBM XP-07	