



Generell informasjon

Brønnbane navn	6706/12-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6706/12-3 (Roald Rygg)
Brønn navn	6706/12-3
Seismisk lokalisering	3D survey ST11M09Z14.inline 2898 & xline 2137
Utvinningsstillatelse	602
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1566-L
Boreinnretning	TRANSOCEAN SPITSBERGEN
Boredager	22
Borestart	22.03.2015
Boreslutt	13.04.2015
Frigitt dato	13.04.2017
Publiseringsdato	13.04.2017
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	NISE FM
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	1287.0
Totalt målt dybde (MD) [m RKB]	3336.0
Totalt vertikalt dybde (TVD) [m RKB]	3335.0
Maks inklinasjon [°]	4.2
Temperatur ved bunn av brønnbanen [°C]	82
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	KVITNOS FM
Geodetisk datum	ED50



NS grader	67° 4' 5.85" N
ØV grader	6° 43' 54.29" E
NS UTM [m]	7440982.06
ØV UTM [m]	401389.03
UTM sone	32
NPDID for brønnbanen	7666

Brønnhistorie

General

Well 6706/12-3 was drilled to test the Roald Rygg prospect about 12 kilometres west of the Aasta Hansteen field in the northern part of the Norwegian Sea. The primary objective was to prove petroleum in Late Cretaceous reservoir rocks, with a primary exploration target in the Nise formation and a secondary exploration target in the Kvitnos formation.

Operations and results

Wildcat well 6706/12-3 was spudded with the semi-submersible installation Transocean Spitsbergen on 13 April 2015 and drilled to TD at 3336 m in the Late Cretaceous Kvitnos Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 1933 m, with Glydril mud from 1933 m to 2295 m, and with Versatec DW oil based mud from 2295 m to TD.

Top of the Nise Reservoir was encountered at 2496m. The Nise Formation contained a gas column of 38 metres, of which about 30 metres in sandstone of extremely good reservoir quality. The gas water contact was established at 2534 m. In the Kvitnos formation, the well encountered water bearing sandstone, of which about 35 metres with good reservoir quality. Poor oil shows (direct and cut fluorescence) were described on the Nise Formation core at 2505 to 2511 m and 2519 to 2525 m. In the Kvitnos Formation, some spotted shows in sandy cuttings were described at 3231 m, 3306 m, and 3315 to 3318 m.

One core was cut from 2505 to 2530 m in the Nise Formation, with 99.0 % recovery. MDT fluid samples were taken at 2510.01 m (gas) and at 2563.01 m (water).

The well was permanently abandoned on 13 April 2015 as a gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1940.00	3336.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2505.0	2529.7	[m]

Total kjerneprøve lengde [m]	24.7
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
1327	NORDLAND GP
1327	NAUST FM
2140	HORDALAND GP
2140	BRYGGE FM
2268	ROGALAND GP
2268	TARE FM
2323	TANG FM
2336	SHETLAND GP
2336	SPRINGAR FM
2496	NISE FM
3222	KVITNOS FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PEX ECS HNGS	2295	3335
MDT CMR	2295	3335
MWD - GR RES DEN NEU CAL DIR APW	1933	2295
MWD - GR RES DIR APWD	1406	1933
MWD - GR RES DIR APWD	2295	3335
OBMI	2480	2645
OBMI SON SCAN TLD	2295	3335
VSI4	1331	3335



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	36	1401.4	42	1406.0	0.00	
INTERM.	13 3/8	1924.7	17 1/2	1933.0	1.26	FIT
LINER	9 5/8	2294.0	12 1/4	2295.0	1.31	FIT
OPEN HOLE		3336.0	8 1/2	3336.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1933	1.12	8.0		Glydril	
2021	1.18	22.0		Versatec	
2295	1.14	12.0		Glydril	
2505	1.16	18.0		Versatec	
2965	1.16	21.0		Versatec	
3336	1.16	21.0		Versatec	