



Generell informasjon

Brønnbane navn	34/7-34
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	VIGDIS
Funn	34/7-34
Brønn navn	34/7-34
Seismisk lokalisering	inline 3210 & crossline 5806(3D survey SG9701STR05 PSDM)
Utvinningstillatelse	089
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1210-L
Boreinnretning	BORGLAND DOLPHIN
Boredager	25
Borestart	14.02.2009
Boreslutt	10.03.2009
Frigitt dato	10.03.2011
Publiseringsdato	10.03.2011
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	STATFJORD GP
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	292.0
Totalt målt dybde (MD) [m RKB]	2701.0
Totalt vertikalt dybde (TVD) [m RKB]	2701.0
Maks inklinasjon [°]	0.35
Temperatur ved bunn av brønnbanen [°C]	95
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	LUNDE FM



Geodetisk datum	ED50
NS grader	61° 23' 22.5" N
ØV grader	2° 8' 32.3" E
NS UTM [m]	6806645.48
ØV UTM [m]	454178.72
UTM sone	31
NPDID for brønnbanen	5973

Brønnhistorie

General

Well 34/7-34 was drilled on the Vigdis Nordøst prospect located centrally in Block 34/7 on the Tampen Spur in the northern North Sea. The primary objective was to prove commercial volumes of oil in the Early Jurassic Statfjord Formation. In addition, the Late Jurassic Draupne Formation was listed as a possible secondary target as Intra-Draupne sandstone was encountered in the 34/7-8 discovery well on the Vigdis øst Field.

Operations and results

A 9 7/8" pilot hole, well 34/7-U-18, was drilled to evaluate for shallow gas, as two potential shallow gas warnings, class 1, were given to the well. Based on MWD/LWD logs water filled sands were encountered at the following depths: 377 m, 452 m, 562 m, 597 m, and 602 m. No indication of shallow gas at seabed was verified with the ROV. Neither were any indications of shallow gas observed at surface or measured while drilling the 36" and 17 1/2" hole in well 34/7-34.

Wildcat well 34/7-34 was spudded with the semi-submersible installation Borgland Dolphin on 14 February 2009 and drilled to TD at 2701 m in the Late Triassic Lunde Formation. No significant technical problems were encountered in the operations. The well was drilled with seawater and pre-hydrated bentonite sweeps down to 1189 m and with XP-07 oil based mud from 1189 m to TD.

The well penetrated rocks of Quaternary, Tertiary, Cretaceous, Jurassic, and Triassic age. It penetrated the southern local high of the Vigdis Nordøst structure in a downflank position. The well indicated the presence of hydrocarbons in the Shetland and shows were described from 2210 m to 2290 m in thin sandstone beds. Surprisingly, neither the Cromer Knoll, nor any Viking Group was present in the well; the well penetrated directly from the Shetland Group and into the Amundsen shale of the Dunlin Group. The well penetrated oil-bearing Statfjord Formation sandstones at 2460.5 m. Oil was present down to 2514 m. No oil/water contact could be seen, and a sidetrack was decided. No shows were described below 2514 m.

One core was cut from 2473 m to 2502 m in the Statfjord Formation. MDT oil samples were collected in the Statfjord Formation at 2470.5 m (good quality, 8 bar draw-down) and 2502.5 m (86 bar draw-down and 6 - 8% mud contamination).

The well bore was permanently plugged back and abandoned on 10 March 2009 as an oil discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1200.00	2700.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2473.0	2502.2	[m]

Total kjerneprøve lengde [m]	29.2
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
323	NORDLAND GP
1080	UTSIRA FM
1095	HORDALAND GP
1680	ROGALAND GP
1680	BALDER FM
1719	LISTA FM
1860	SHETLAND GP
2349	DUNLIN GP
2349	AMUNDSEN FM
2461	STATEFJORD GP
2584	HEGRE GP
2584	LUNDE FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
5973_01_34_7_34_gch_transfer_1	txt	0.00
5973_02_34_7_34_gch_results_1	txt	0.10





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PEX MSIP	2050	2690
MDT PRESS & SAMPLE	2461	2661
MWD - ARCVRES8 POWERPULSE	1189	2111
MWD - ARCVRES9 POWERPULSE	386	1189
MWD - GVR6 ARCVRES6 STET TELE	2111	2701
MWD - POWERPULSE	323	385
VSP	267	2626

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	383.0	36	386.0	0.00	LOT
SURF.COND.	13 3/8	1184.0	17 1/2	1189.0	1.57	LOT
INTERM.	9 5/8	2106.0	12 1/4	2111.0	1.78	LOT
OPEN HOLE		2701.0	8 1/2	2701.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1189	1.30	20.0		KCl/Polymer/GEM	
1300	1.39	15.0		OBM-Low ECD	
1400	1.42	15.0		OBM-Low ECD	
1757	1.46	19.0		OBM-Low ECD	
1878	1.66	20.0		OBM-Low ECD	
2001	1.62	20.0		OBM-Low ECD	
2106	1.55	18.0		OBM-Low ECD	
2111	1.48	20.0		OBM-Low ECD	
2473	1.58	18.0		OBM-Low ECD	
2499	1.58	17.0		OBM-Low ECD	
2701	1.66	21.0		OBM-Low ECD	