Generell informasjon

Brønnbane navn	25/8-16 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	25/8-16 S (Eitri)
Brønn navn	25/8-16
Seismisk lokalisering	ES9403.inline 1433 & xline2484
Utvinningstillatelse	027 D
Boreoperatør	ExxonMobil Exploration and Production Norway AS
Boretillatelse	1237-L
Boreinnretning	BREDFORD DOLPHIN
Boredager	34
Borestart	10.04.2009
Boreslutt	13.05.2009
Frigitt dato	13.05.2011
Publiseringsdato	13.05.2011
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]	126.0
Totalt målt dybde (MD) [m RKB]	2550.0
Totalt vertikalt dybde (TVD) [m RKB]	2132.0
Maks inklinasjon [°]	61.5
Temperatur ved bunn av brønnbanen [°C]	84
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50

NS grader	59° 24' 56.25'' N
ØV grader	2° 29' 2.34'' E
NS UTM [m]	6586599.87
ØV UTM [m]	470710.44
UTM sone	31
NPDID for brønnbanen	6082

Brønnhistorie

General

Well 25/8-16 S is located on the Utsira High in the southern part of the Viking Graben in the North Sea. It was drilled to test the hydrocarbon and reservoir potential in two prospects. The man target was the Eitri prospect in the paleocene Ty Formation, and the second target was the Phi prospect in the Statfjord Formation. Depending on findings in the Ty and Statfjord reservoir sections, it was an option to drill one or two sidetracks. For dry hole cases in Ty and Statfjord reservoir sections, no sidetracks should be drilled.

Operations and results

Wildcat well 25/8-16 S was spudded with the semi-submersible installation Bredford Dolphin on 10 April 2009 and drilled to TD at 2550 m (2132 m TVD) in the Early Jurassic Statfjord Formation . The well was drilled vertical down to 1100 m, and then deviated towards the south. The well was drilled with Seawater/spud mud down to 1935 m and with XP-07 oil based mud from 1035 m to TD.

A 3 m thick oil column was discovered in the Heimdal Formation, in the 12 1/4" section. The oil - water contact was not found. The Heimdal Formation was not one of the targets for the well, and was not prognosed as it was believed to pinch out down flanks of the well. No signs of hydrocarbons were found in the main target Ty Formation, or in the secondary target of Statfjord Formation. No oil shows above the oil based mud were recorded in the well.

No cores were cut in the well. MDT fluid samples were taken with dual packer through perforation in casing at 2232.65 m (1972.65 m TVD) in the Heimdal Formation. When the MDT run was performed, the Heimdal Formation had been behind casing for 8 days, and there had been no circulation for about 100 hours. After 48 hours and pumping of 1769 litres the measured temperature was 79.5 deg C. This temperature is regarded as highly representative for the formation. The samples consisted of oil with a GOR ranging from 136.3 to 149.6 Sm3/Sm3.

Based on the findings in 25/8-16 S, it was decided to drill a side track (25/8-16A) to appraise the discovery made in the Heimdal Formation.

The well bore was permanently abandoned on 13 May 2009 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1040.00	2550.00

Borekaks tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
151	NORDLAND GP
519	UTSIRA FM
1005	HORDALAND GP
1156	SKADE FM
1224	GRID FM
1973	ROGALAND GP
1973	BALDER FM
2059	SELE FM
2146	LISTA FM
2200	HEIMDAL FM
2359	TY FM
2395	SHETLAND GP
2395	EKOFISK FM
2400	DUNLIN GP
2400	AMUNDSEN FM
2495	STATFJORD GP

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
GR CCL PERF	2232	2232
IBC CBL GR CCL	1900	2290
MDT DP	2232	2232
MWD LWD - DIR	151	220
MWD LWD - DIR DGR EWR PWD	220	1036
MWD LWD - DIR DGR EWR PWD	1036	2550
MWD LWD - DIR DGR PWD	220	1036

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	216.0	36	216.0	0.00	LOT
SURF.COND.	13 3/8	1030.0	17 1/2	1039.0	1.82	LOT
INTERM.	9 5/8	2353.0	12 1/4	2370.0	1.57	LOT
OPEN HOLE		2550.0	8 1/2	2550.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
179	1.06			Spud Mud	
958	1.06			Spud Mud	
1021	1.47	21.0		XP-07	
1035	1.25	18.0		Spud Mud	
1159	1.50	21.0		XP-07	
2346	1.50	21.0		XP-07	
2370	1.50	20.0		XP-07	
2551	1.39	20.0		XP-07	