



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 16.5.2024 - 10:22

Brønnbane navn	34/4-10
Type	EXPLORATION
Formål	WILDCAT
Status	SUSPENDED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	34/4-10 (Beta Brent)
Brønn navn	34/4-10
Seismisk lokalisering	MN 9601 INLINE 1220 - CROSSLINE 2054
Utvinningstillatelse	057
Boreoperatør	Saga Petroleum ASA
Boretillatelse	968-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	23
Borestart	12.02.2000
Boreslutt	05.03.2000
Frigitt dato	05.03.2002
Publiseringsdato	29.05.2002
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	357.0
Totalt målt dybde (MD) [m RKB]	2380.0
Totalt vertikalt dybde (TVD) [m RKB]	2379.5
Maks inklinasjon [°]	3.6
Temperatur ved bunn av brønnbanen [°C]	141
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	KYRRE FM
Geodetisk datum	ED50
NS grader	61° 37' 33.27" N
ØV grader	2° 4' 30.41" E
NS UTM [m]	6833018.73
ØV UTM [m]	450962.75
UTM sone	31
NPDID for brønnbanen	3143



Brønnhistorie

General

The purpose of the well 34/4-10 was to test the hydrocarbon potential of the Delta prospect located NW of the Snorre Field in block 34/4. The Delta prospect is a NE-SW oriented structural trap at the rim of the Marulk Basin. The main objective was to test the lithology and the presence of hydrocarbons in possible sandstone units within the Heather Formation. The well had as secondary target the Brent Group. Planned TD for the well was 50 m into the Statfjord Formation.

Operations and results

The well was spudded with the semi-submersible rig "Transocean Arctic" 12 February 2000 and reached a total depth of 4246 m in Statfjord Formation 7 April 2000. After 13 3/8" casing at 2380 m the well was temporarily plugged and abandoned due to onshore rig-repair at Ågotnes.

After 13 days the well was re-entered as 34/4-10R. The well was drilled water based to 2385 m and oil based from 2385 m to TD.

In the Upper Jurassic sequences no sandstones were found and therefore no core was taken. The Heather Formation was therefore thinner than prognosed. However, a 103 m thick oil bearing, Aalenian to lower Bajocian, Brent sequence was proven. It is an oil down to situation with 10 m net pay. MDT sampling was carried out in the oil column at 3966.5 m. Six sample bottles were filled, 5 SPMC bottles (450 cc) and 1 MRSC 1 gallon sample chamber. About 50 litres of formation fluid was pumped out before sampling was commenced resulting in a draw down during sampling of about 165 bar. PVT analysis indicated a moderately light oil (GOR 135 sm³/sm³, 0.850g/cc - 0.69 g/cc at reservoir conditions) with about 30% sample contamination by mud filtrate.

One 30 m core was taken in the best sandstone interval from 3953.0 - 3980.4 m. The core shows a classical prograding sequence from lower shore face to upper shore face, with a sequence boundary/ ravinement surface near the top. Above this a sandy transgressive interval is interpreted. At the top of the Brent sequence an unconformity is interpreted at 3937 m. Both the formation pressure and the temperature were high. The Statfjord Formation was water bearing. The well was permanently plugged and abandoned as an oil discovery 18 April 2000.

Testing

No drill stem test was performed.

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
381	NORDLAND GP
1241	UTSIRA FM
1249	HORDALAND GP
1741	ROGALAND GP
1741	BALDER FM
1780	LISTA FM



1910	SHETLAND GP
1910	JORSALFARE FM
2195	KYRRE FM

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3143 34 4 10 COMPLETION LOG	.pdf	3.79
3143 34 4 10 COMPLETION REPORT	.pdf	63.12

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD CDR	381	2364

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	454.5	36	455.0	0.00	LOT
INTERM.	18 5/8	1304.0	24	1309.0	1.65	LOT
INTERM.	13 3/8	2380.0	17 1/2	2380.0	1.88	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
2380	1.54	27.0		WATER BASED	

