



Generell informasjon

Brønnbane navn	25/8-11
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	BALDER
Funn	25/8-11 Ringhorne
Brønn navn	25/8-11
Seismisk lokalisering	ES9403 3D- INLINE 3824 & X-LINE 2313
Utvinningstillatelse	027
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	909-L
Boreinnretning	WEST ALPHA
Boredager	48
Borestart	16.10.1997
Boreslutt	02.12.1997
Frigitt dato	02.12.1999
Publiseringsdato	18.12.2002
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	HERMOD FM
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	STATFJORD GP
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	128.0
Totalt målt dybde (MD) [m RKB]	1994.0
Totalt vertikalt dybde (TVD) [m RKB]	1994.0
Maks inklinasjon [°]	2.97
Temperatur ved bunn av brønnbanen [°C]	82
Eldste penetrerte alder	EARLY JURASSIC



Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	59° 18' 7" N
ØV grader	2° 26' 51" E
NS UTM [m]	6573957.14
ØV UTM [m]	468534.61
UTM sone	31
NPDID for brønnbanen	3209

Brønnhistorie

General

The 25/8-11 well was drilled in PL 027 with Esso as the operator and sole licensee. The well was drilled in the Ringhorn prospect, which is located approximately 14 km North of Balder. The primary target was the Paleocene Hermod Formation sandstones. Jurassic sandstones constituted a secondary target.

Operations and results

Wildcat well 25/8-11 was spudded with the semi-submersible drilling rig "West Alpha" on 16 October 1997 and drilled to a total depth of 1994 m in Early Jurassic sediments of the Statfjord Formation. The well was drilled with spud mud down to 1001 m and oil-based mud from 1001 m to TD. Hydrocarbons were encountered in both targets. Top Hermod sandstones were found at 1765 m. The Paleocene OWC (from wire line log) was found at 1775 m. The Paleocene reservoir properties were close to those of the Balder reservoirs and it was not the plan to test this reservoir. The top of the Jurassic reservoir (Top Statfjord Formation) came in at 1891 m. The Jurassic OWC (from wire line log) was found at 1935 m. The discovery in the Jurassic was the first of it's kind in this area and it was therefore decided to test this part of the Ringhorn Discovery. One core was cut in the interval 1763 m to 1790 m from lowermost Sele Formation and through half of the Hermod Formation. Two MDT samples were taken in the Statfjord Formation: one oil sample from 1919 m and one water sample from 1938 m. After production testing the well was suspended as an oil discovery on 2 December 1997.

Testing

A DST was performed in the interval 1892.5 m to 1909.5 m in thin sands of the Upper Statfjord Formation. The well produced 517 Sm³ oil per day and with a GOR of 42 Sm³/Sm³ on a 40/64th inch choke. Only surface samples were collected. Initial reservoir conditions at 1882 m were found to be 18.74 Mpa and 78 deg C. The plan was to continue with the test by perforating a lower sand interval and do a commingled test of both sand intervals. Due to bad weather this was delayed and when the weather improved technical problems lead to suspension of the test without any data obtained from the lower interval.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1030.00	1994.50



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1763.0	1789.7	[m]

Total kjerneprøve lengde [m]	26.7
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1763-1768m



1768-1773m



1773-1778m



1778-1783m



1783-1788m



1788-1790m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1030.0	[m]	DC	CGG
1060.0	[m]	DC	CGG
1120.0	[m]	DC	CGG
1140.0	[m]	DC	CGG
1150.0	[m]	DC	CGG
1180.0	[m]	DC	CGG
1220.0	[m]	DC	CGG
1260.0	[m]	DC	CGG



1280.0	[m]	DC	CGG
1290.0	[m]	DC	CGG
1300.0	[m]	DC	CGG
1310.0	[m]	DC	CGG
1320.0	[m]	DC	CGG
1330.0	[m]	DC	CGG
1340.0	[m]	DC	CGG
1350.0	[m]	DC	CGG
1460.0	[m]	DC	CGG
1580.0	[m]	DC	CGG
1670.0	[m]	DC	CGG
1680.0	[m]	DC	CGG
1745.0	[m]	DC	CGG
1750.0	[m]	DC	CGG
1770.6	[m]	C	CGG
1773.3	[m]	C	CGG
1778.2	[m]	C	CGG
1786.0	[m]	C	CGG
1810.0	[m]	DC	CGG
1820.0	[m]	DC	CGG
1830.0	[m]	DC	CGG
1850.0	[m]	DC	CGG
1870.0	[m]	DC	CGG
1900.0	[m]	DC	RRI
1920.0	[m]	DC	RRI
1970.0	[m]	DC	RRI

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST 1	1910.00	1893.00		15.11.1997 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
146	NORDLAND GP



555	UTSIRA FM
651	NO FORMAL NAME
708	HORDALAND GP
708	SKADE FM
861	UNDIFFERENTIATED
943	NO FORMAL NAME
978	UNDIFFERENTIATED
1129	GRID FM
1138	NO FORMAL NAME
1678	ROGALAND GP
1678	BALDER FM
1743	SELE FM
1765	HERMOD FM
1768	SELE FM
1774	HERMOD FM
1796	SELE FM
1824	LISTA FM
1872	VÅLE FM
1876	SHETLAND GP
1876	EKOFISK FM
1891	STATFJORD GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3209	pdf	0.32

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3209 25 8 11 COMPLETION REPORT	pdf	49.47

Borestrengtester (DST)





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 29.5.2024 - 14:21

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1893	1910	16.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				78

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	520	23000			44

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT UBI DSI	992	1986
CMR IPL	1671	1990
LDL CNL GR	1578	1995
MDT	1766	1981
MWD - DIR	920	998
MWD - GR RES DIR	219	1001
MWD - GR RES DIR	1024	1994
SWC	1678	1985
VSP	350	1990

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	220.0	36	221.0	0.00	LOT
INTERM.	13 3/8	998.0	17 1/2	1008.0	0.00	LOT
OPEN HOLE		1994.0	8 1/2	1994.0	0.00	LOT

Boreslam



Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1001	1.32	24.0		OIL BASED	
1024	1.32	26.0		OIL BASED	
1471	1.32	20.0		OIL BASED	
1565	1.32	25.0		OIL BASED	
1790	1.33	26.0		OIL BASED	
1994	1.13			DUMMY	
1994	1.32	26.0		OIL BASED	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
3209 Formation pressure (Formasjonstrykk)	pdf	0.19

