



Generell informasjon

Brønnbane navn	25/11-13
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	BALDER
Funn	25/11-1 Balder
Brønn navn	25/11-13
Seismisk lokalisering	BALMG 188 SP: 261.
Utvinningstillatelse	001
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	287-L
Boreinnretning	GLOMAR BISCAY II
Boredager	20
Borestart	10.05.1981
Boreslutt	29.05.1981
Frigitt dato	29.05.1983
Publiseringsdato	17.06.2011
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EOCENE
1. nivå med hydrokarboner, formasjon.	INTRA BALDER FM SS
2. nivå med hydrokarboner, alder	PALEOCENE
2. nivå med hydrokarboner, formasjon	HEIMDAL FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	127.0
Totalt målt dybde (MD) [m RKB]	1932.0
Totalt vertikalt dybde (TVD) [m RKB]	1932.0
Maks inklinasjon [°]	3
Temperatur ved bunn av brønnbanen [°C]	55
Eldste penetrerte alder	LATE CRETACEOUS



Eldste penetrerte formasjon	TOR FM
Geodetisk datum	ED50
NS grader	59° 11' 26.49" N
ØV grader	2° 23' 24.09" E
NS UTM [m]	6561596.97
ØV UTM [m]	465148.07
UTM sone	31
NPDID for brønnbanen	373

Brønnhistorie

General

Well 25/11-13 was drilled to appraise the Balder Field on the Utsira High in the North Sea. The objective was to establish the presence of a thick accumulation of oil sand in the southern part of the Balder Field, and evaluate the sand-shale distribution and the reservoir quality of the Paleocene sands. Top of the Paleocene reservoir sands was anticipated at 1702 m MSL.

Operations and results

Appraisal well 25/11-13 was spudded with the semi-submersible installation Glomar Biscay II on 10 May 1981 and drilled to TD at 1932 m in the Late Cretaceous Tor Formation. The well was drilled with seawater and bentonite down to 500 m and with seawater/bentonite/lignosulphonate mud from 500 m to TD.

Shows of hydrocarbons were present in three 1-2 m thick Intra-Balder Formation sand beds between 1723 and 1743 m. The main oil-bearing Paleocene reservoir sand (Hermod Formation) was encountered between 1768.8 m to 1816.8 m. It contained oil down to the OWC at 1783 m (1758 m MSL), which is close to the regional Balder Field OWC. The average porosity in the oil zone was 33.5 %. Poorly developed 4 m thick Heimdal Formation sand was penetrated at 1858 m, and then a massive Ty Formation sandstone was penetrated from 1875 m down to the Shetland Group at 1908 m.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 29 May 1981 as an oil appraisal.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
220.00	1932.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1369.0	[m]	SWC	
1388.0	[m]	SWC	
1410.0	[m]	SWC	
1443.0	[m]	SWC	
1474.0	[m]	SWC	
1500.0	[m]	SWC	
1535.0	[m]	SWC	
1620.0	[m]	SWC	
1655.0	[m]	SWC	
1678.0	[m]	SWC	
1684.0	[m]	SWC	
1695.0	[m]	SWC	
1707.0	[m]	SWC	
1710.0	[m]	SWC	
1713.0	[m]	SWC	
1720.0	[m]	SWC	
1727.0	[m]	SWC	
1740.0	[m]	DC	
1745.0	[m]	SWC	
1746.0	[m]	SWC	
1746.0	[m]	DC	
1756.0	[m]	SWC	
1757.0	[m]	SWC	
1760.0	[m]	SWC	
1767.0	[m]	SWC	
1784.0	[m]	SWC	
1809.0	[m]	SWC	
1818.0	[m]	SWC	
1819.0	[m]	SWC	
1825.0	[m]	SWC	
1830.0	[m]	SWC	
1833.0	[m]	SWC	
1835.0	[m]	SWC	
1840.0	[m]	DC	
1842.0	[m]	SWC	
1844.0	[m]	SWC	
1848.0	[m]	SWC	



1850.0	[m]	DC	
1857.0	[m]	SWC	
1860.0	[m]	DC	
1865.0	[m]	SWC	
1870.0	[m]	DC	
1873.0	[m]	SWC	
1910.0	[m]	SWC	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
152	NORDLAND GP
596	UTSIRA FM
695	NO FORMAL NAME
735	HORDALAND GP
735	SKADE FM
935	NO FORMAL NAME
978	SKADE FM
986	NO FORMAL NAME
1064	SKADE FM
1095	NO FORMAL NAME
1202	SKADE FM
1215	NO FORMAL NAME
1442	GRID FM
1452	NO FORMAL NAME
1678	ROGALAND GP
1678	BALDER FM
1728	INTRA BALDER FM SS
1731	BALDER FM
1737	INTRA BALDER FM SS
1741	BALDER FM
1744	SELE FM
1769	HERMOD FM
1817	SELE FM
1820	LISTA FM
1858	HEIMDAL FM
1862	VÅLE FM
1875	TY FM
1908	SHETLAND GP



1908	EKOFISK FM
1920	TOR FM

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
373_01_WDSS_General_Information	pdf	0.10
373_02_WDSS_completion_log	pdf	0.16

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
373_25_11_13_Completion_Log	pdf	1.20
373_25_11_13_Completion_Report	pdf	6.99

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DEN NEU GR	1320	1927
DIPLOG	1325	1927
DLL MLL GR	1326	1927
IEL BHC AC GR SP	149	1926
SWC	1369	1910
VELOCITY	149	1927

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	215.0	36	216.0	0.00	LOT
INTERM.	13 3/8	483.0	17 1/2	500.0	1.66	LOT
INTERM.	9 5/8	1328.0	12 1/4	1345.0	1.81	LOT
OPEN HOLE		1932.0	8 1/2	1932.0	0.00	LOT

Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
230	1.06	75.0		waterbased	
810	1.07	43.0		waterbased	
1360	1.18	51.0		waterbased	
1860	1.20	53.0		waterbased	