



Generell informasjon

Brønnbane navn	25/11-8
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	25/11-8
Seismisk lokalisering	CS-75-32 sp 2207
Utvinningstillatelse	001
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	223-L
Boreinnretning	DYVI ALPHA
Boredager	39
Borestart	08.09.1979
Boreslutt	16.10.1979
Frigitt dato	16.10.1981
Publiseringsdato	30.04.2010
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]	126.0
Totalt målt dybde (MD) [m RKB]	1950.0
Maks inklinasjon [°]	4.5
Temperatur ved bunn av brønnbanen [°C]	77
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	EKOFISK FM



Geodetisk datum	ED50
NS grader	59° 11' 17.33" N
ØV grader	2° 21' 39.92" E
NS UTM [m]	6561329.11
ØV UTM [m]	463492.07
UTM sone	31
NPDID for brønnbanen	369

Brønnhistorie

General

Well 25/11-8 was drilled ca 3 km west-north west of the 25/11-1 Balder discovery well on the Utsira High in the North Sea. The primary objective was to establish the presence of, and closure on, the thick accumulation of Paleocene zone IB sand in the central part of the Balder Field, evaluate the geologic interpretation of sand distribution and reservoir quality in this field and test the flow potential and nature of the hydrocarbons present.

Operations and results

Appraisal well 25/11-8 was spudded with the semi-submersible installation Dyvi Alpha on 8 September 1979 and drilled to TD at 1950 m in the Early Paleocene Ekofisk Formation. The well was drilled with Seawater/Gel/Lignosulphonate.

The well penetrated the Utsira Formation and several Skade Formation sands and then penetrated a ca 600 m thick section of shales belonging to the lower Hordaland Group before top Balder Formation was encountered at 1655 m. The well encountered two massive sand units in the Paleocene Heimdal Formation at 1721.5 m and 1743.8 m (dinoflagellate zones IB and II, respectively), interpreted as sand lobes deposited from sand-rich turbidity currents in the Balder Deep Sea Fan Complex. Both sands were oil bearing down to an OWC at 1785 m (1760 m MSL). Some thin sands from about 1705 m to 1720 m, overlying the massive sands, also appeared to be oil-bearing, and there were good shows on a core three meter below the OWC.

Nine cores were taken in the interval 1722.5 m to 1800.4 m in the Heimdal Formation. Cores 1 and 4 had no recovery; the remaining cores retrieved a total of 41.7 m. No wire line fluid samples were taken.

The well was permanently abandoned on 16 October as an oil appraisal well.

Testing

One production test was performed in the interval 1752 to 1767 m in the lower massive sand of the Heimdal Formation. It produced 418 Sm³ oil and 18690 Sm³ gas/day with traces of sand through a 38/64" choke. The GOR was 45 Sm³/Sm³, the oil gravity was 25 deg API (0.90 g/cm³), and the gas gravity was 0.7 (air = 1). No H₂S or inert gas was detected.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
200.00	1950.00



Borekaks tilgjengelig for prøvetaking?	YES
--	-----

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
2	1730.2	1734.2	[m]
3	1737.0	1740.0	[m]
4	1742.5	1753.3	[m]
5	1756.0	1757.0	[m]
6	1762.3	1771.7	[m]
7	1771.6	1778.4	[m]
8	1781.2	1788.0	[m]
9	1791.0	1798.0	[m]

Total kjerneprøve lengde [m]	48.8
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1635.0	[m]	SWC	
1650.0	[m]	SWC	
1652.0	[m]	SWC	
1660.0	[m]	SWC	
1675.0	[m]	SWC	
1679.5	[m]	SWC	
1684.5	[m]	SWC	
1690.0	[m]	DC	
1693.0	[m]	SWC	
1700.0	[m]	DC	
1702.5	[m]	SWC	
1709.5	[m]	SWC	
1710.0	[m]	DC	
1714.0	[m]	SWC	
1715.0	[m]	DC	
1717.0	[m]	SWC	
1720.0	[m]	DC	



1721.0 [m]	SWC	
1725.0 [m]	DC	
1728.2 [m]	C	
1730.0 [m]	DC	
1730.3 [m]	C	
1730.7 [m]	C	
1731.4 [m]	C	CGG
1732.0 [m]	C	
1732.5 [m]	C	
1737.0 [m]	DC	
1737.0 [m]	C	
1737.0 [m]	SWC	
1738.0 [m]	C	
1739.0 [m]	C	
1739.3 [m]	C	
1740.0 [m]	C	
1779.0 [m]	SWC	
1783.0 [m]	SWC	
1835.0 [m]	SWC	
1839.0 [m]	SWC	
1849.0 [m]	SWC	
1850.0 [m]	DC	
1852.0 [m]	SWC	
1888.0 [m]	SWC	
1891.0 [m]	SWC	
1895.0 [m]	DC	
1903.0 [m]	SWC	
1905.0 [m]	DC	
1910.0 [m]	DC	
1911.0 [m]	SWC	
1914.0 [m]	SWC	
1915.0 [m]	DC	
1920.0 [m]	DC	
1925.0 [m]	DC	

Oljeprøver i Sökkeldirektoratet



Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST1	1720.00	1735.00		11.09.1979 - 13:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
151	NORDLAND GP
585	UTSIRA FM
725	NO FORMAL NAME
750	HORDALAND GP
750	SKADE FM
916	NO FORMAL NAME
948	SKADE FM
968	NO FORMAL NAME
1049	SKADE FM
1072	NO FORMAL NAME
1655	ROGALAND GP
1655	BALDER FM
1675	INTRA BALDER FM SS
1677	BALDER FM
1693	INTRA BALDER FM SS
1698	BALDER FM
1699	SELE FM
1712	LISTA FM
1722	HEIMDAL FM
1895	LISTA FM
1915	VÅLE FM
1925	SHETLAND GP
1925	EKOFISK FM

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
369_01_WDSS_General_Information	pdf	0.10
369_02_WDSS_completion_log	pdf	0.15





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
369_01_25_11_8_Completion_log	pdf	1.13
369_01_25_11_8_Completion_Report	pdf	7.94

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1752	1767	15.1

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				52

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	418		0.900		46

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL	700	1360
CDL CNL	1350	1947
CDM	1357	1933
DLL MLL	1350	1947
IEL BHC	189	1943
VELOCITY	189	1943

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	189.0	36	189.0	0.00	LOT





SURF.COND.	13 3/8	390.0	17 1/2	402.0	1.58	LOT
INTERM.	9 5/8	1367.0	12 1/4	1383.0	1.78	LOT
INTERM.	7	1930.0	8 1/2	1950.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
402	1.04	120.0		waterbased	
689	1.07	32.0		waterbased	
1383	1.10			waterbased	
1723	1.15			waterbased	
1751	1.13			waterbased	
1950	1.14			waterbased	