



Generell informasjon

Brønnbane navn	25/11-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	BALDER
Funn	25/11-1 Balder
Brønn navn	25/11-1
Seismisk lokalisering	
Utvinningstillatelse	001
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	2-L
Boreinnretning	OCEAN TRAVELER
Boredager	265
Borestart	18.10.1966
Boreslutt	09.07.1967
Frigitt dato	09.07.1969
Publiseringsdato	19.12.2007
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EOCENE
1. nivå med hydrokarboner, formasjon.	INTRA BALDER FM SS
Avstand, boredekk - midlere havflate [m]	27.0
Vanndybde ved midlere havflate [m]	126.0
Totalt målt dybde (MD) [m RKB]	2459.0
Maks inklinasjon [°]	2.75
Temperatur ved bunn av brønnbanen [°C]	71
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	59° 10' 57.35" N
ØV grader	2° 24' 24.89" E



NS UTM [m]	6560686.91
ØV UTM [m]	466105.01
UTM sone	31
NPDID for brønnbanen	143

Brønnhistorie

**General**

Well 25/11-1 is located on the Utsira High in the Northern North Sea. The objective of the well was to test the hydrocarbon potential of the sedimentary section; to investigate the lithology and sequence in this portion of the North Sea basin; and to partially fulfil Esso's drilling obligation to the Norwegian Government incurred on behalf of the Licenses.

Operations and results

Wildcat well 25/11-1 was spudded with the semi-submersible installation Ocean Traveler on and drilled to TD at 2459 m in Basement rock. Actual drilling problems with the 25/11-1 were few. However, other major problems occurred. The number 2 column of Ocean Traveler was bumped by a supply boat on 6 November and began taking water. On 18 November, 1966 the rig was towed to Stavanger for repairs. By 14 April, 1967 the rig was able to continue drilling at the 25/11-1 location. Bad weather caused a new break in the drilling operations from 17 April to 10 May.

From the sea floor to 370 m (1213'), the hole was drilled with sea water and gel. Returns in this interval were to the sea floor. Below 370 m to total depth a sea water slurry with Bentonite, Zeogel, Spersene, XP-20, Caustic Soda and 0 -12% diesel oil was used.

First show in the well was reported in thin siltstone and sandstone bands at ca1690 m. Gas and live oil were found in Paleocene clastic sediments (Balder Formation; top has been set at 1698). The recovered cores from this interval (1726.7 to 1745.9 m) showed a predominantly shale section containing interbedded tuffaceous siltstone and sandstone. The shale bled gas throughout and developed a film of oil along fractured surfaces. The siltstone, though tight, bled oil at the base of most beds. The sandstone, whether 1/2 inch or three feet thick, was saturated with live oil which gave a yellow fluorescence and a streaming yellow-white or blue-white cut. Two FIT tests at 1755 and 1777 m yielded oil and gas, while a FIT at 1801.4 m recovered salt water and mud. An OWC was set at 1783 m. In this early phase of exploration in the North Sea, this was encouraging. The prospective reservoir rocks, however, were too thin to justify further tests in this well.

Fourteen cores were cut in the well. Core 1 was cut from 991.2 to 1000.3 m in the Hordaland Group; core no 2 from 1097.2 to 1104.9 m gave no recovery; core 3 was cut from 1104.9 to 1109.4 m in the Skade Formation, cores 4, 5, and 6 from 1726.7 to 1745.9 m in the Balder Formation; cores 7 and 8 from 1876.9 to 1904.0 m in the Ty and Ekofisk Formations; core 9 from 1956.8 to 1960.6 m in the Sola Formation, core 10 from 2013.5 to 2022.6 m in the Statfjord Formation; cores 11 and 12 in the interval 2186.9 to 2363.0 m in the Skagerrak Formation; and cores 13 and 14 in the interval 2391.1 to 2459.4 in Basement rocks. Fifteen Formation Interval Tests (FIT) were attempted. The test at 1755 m recovered 323 litre gas and 6 litre of 22.3 deg API oil, while the one at 1777 recovered 535 litre gas and 7 litre of 20.2 deg API oil. Tests at 1801, 4 m, 1873.3 m, 2007.4 m, and 2196.4 m all yielded salt water. Nine tests between 1713 - 1876 m failed.

The well was permanently abandoned on 9 July 1967 as an oil discovery, the first in Norway.

Testing

No drill stem test was performed.



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1213.00	2270.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
3	3623.0	3640.0	[ft]
4	5665.0	5695.0	[ft]
5	5695.0	5728.0	[ft]
6	5714.0	5725.0	[ft]
7	6159.0	6196.0	[ft]
8	6196.0	6247.0	[ft]
9	6420.0	6432.5	[ft]
10	6606.0	6636.0	[ft]
11	7175.0	7212.0	[ft]
12	7709.0	7755.0	[ft]
13	7845.0	7858.0	[ft]
14	8032.0	8065.0	[ft]

Total kjerneprøve lengde [m]	106.8
Kjerter tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
0.0	[m]	DC	
0.0	[m]	C	
1721.0	[m]	DC	
1880.4	[m]	C	
1882.0	[m]	C	
1890.0	[m]	C	
3252.0	[ft]	C	
3280.0	[ft]	DC	
3370.0	[ft]	DC	
3490.0	[ft]	DC	
3520.0	[ft]	DC	



3600.0 [ft]	C	
3626.0 [ft]	C	
3633.5 [ft]	C	
3640.0 [ft]	C	
3700.0 [ft]	DC	
3700.0 [ft]	DC	
3800.0 [ft]	DC	
3900.0 [ft]	DC	
4000.0 [ft]	DC	
4000.0 [ft]	DC	
4080.0 [ft]	DC	
4100.0 [ft]	DC	
4170.0 [ft]	DC	
4190.0 [ft]	DC	
4230.0 [ft]	DC	
4280.0 [ft]	DC	
4360.0 [ft]	DC	
4380.0 [ft]	DC	
4405.0 [ft]	DC	
4430.0 [ft]	DC	
4460.0 [ft]	DC	
4490.0 [ft]	DC	
4520.0 [ft]	DC	
4580.0 [ft]	DC	
4610.0 [ft]	DC	
4670.0 [ft]	DC	
4700.0 [ft]	DC	
4790.0 [ft]	DC	
4790.0 [ft]	DC	
4880.0 [ft]	DC	
4880.0 [ft]	DC	
4970.0 [ft]	DC	
5000.0 [ft]	DC	
5090.0 [ft]	DC	
5180.0 [ft]	DC	
5210.0 [ft]	DC	
5290.0 [ft]	DC	
5300.0 [ft]	DC	
5390.0 [ft]	DC	
5500.0 [ft]	DC	



5540.0 [ft]	DC	
5560.0 [ft]	DC	
5569.0 [ft]	SWC	
5570.0 [ft]	SWC	
5580.0 [ft]	DC	
5600.0 [ft]	DC	
5640.0 [ft]	DC	
5665.0 [ft]	C	
5665.0 [ft]	DC	
5670.0 [ft]	C	
5675.0 [ft]	C	
5680.0 [ft]	C	
5688.0 [ft]	SWC	
5693.0 [ft]	SWC	
5695.0 [ft]	C	
5696.0 [ft]	C	
5714.0 [ft]	C	
5714.0 [ft]	C	
5722.0 [ft]	SWC	
5726.0 [ft]	SWC	
5728.0 [ft]	C	
5728.0 [ft]	DC	
5731.0 [ft]	SWC	
5736.0 [ft]	SWC	
5738.0 [ft]	SWC	
5800.0 [ft]	DC	
5815.0 [ft]	SWC	
5819.0 [ft]	SWC	
5825.0 [ft]	SWC	
5833.0 [ft]	SWC	
5840.0 [ft]	DC	
5900.0 [ft]	DC	
5960.0 [ft]	DC	
5980.0 [ft]	DC	
6000.0 [ft]	DC	
6020.0 [ft]	DC	
6080.0 [ft]	DC	
6100.0 [ft]	DC	
6140.0 [ft]	DC	
6157.0 [ft]	DC	



6158.0 [ft]	C	
6171.0 [ft]	C	
6171.0 [ft]	C	
6196.0 [ft]	C	
6198.0 [ft]	DC	
6201.0 [ft]	C	
6250.0 [ft]	DC	
6250.0 [ft]	DC	
6290.0 [ft]	DC	
6300.0 [ft]	DC	
6340.0 [ft]	DC	
6390.0 [ft]	DC	
6420.0 [ft]	C	
6421.0 [ft]	C	
6423.0 [ft]	C	
6427.0 [ft]	C	
6428.0 [ft]	C	
6431.0 [ft]	C	
6432.0 [ft]	C	
6445.0 [ft]	DC	
6500.0 [ft]	DC	
6540.0 [ft]	DC	
6550.0 [ft]	DC	
6550.0 [ft]	DC	
6600.0 [ft]	DC	
6610.0 [ft]	DC	
6615.0 [ft]	DC	
6620.0 [ft]	DC	
6650.0 [ft]	DC	
6710.0 [ft]	DC	
6740.0 [ft]	DC	
6750.0 [ft]	DC	
6800.0 [ft]	DC	
6850.0 [ft]	DC	
6900.0 [ft]	DC	
6927.0 [ft]	C	
6940.0 [ft]	DC	
7000.0 [ft]	DC	
7040.0 [ft]	DC	
7090.0 [ft]	DC	



7140.0 [ft]	DC	
7188.0 [ft]	C	
7203.0 [ft]	C	
7207.0 [ft]	C	
7211.0 [ft]	C	
7212.0 [ft]	DC	
7230.0 [ft]	DC	
7350.0 [ft]	DC	
7391.0 [ft]	C	
7395.0 [ft]	C	
7440.0 [ft]	DC	
7500.0 [ft]	DC	
7545.0 [ft]	DC	
7590.0 [ft]	DC	
7640.0 [ft]	DC	
7650.0 [ft]	SWC	
7655.0 [ft]	SWC	
7665.0 [ft]	SWC	
7665.0 [ft]	SWC	
7675.0 [ft]	SWC	
7742.0 [ft]	C	
7753.0 [ft]	C	
7755.0 [ft]	SWC	
7760.0 [ft]	SWC	
7765.0 [ft]	SWC	
7770.0 [ft]	SWC	
7780.0 [ft]	SWC	
7785.0 [ft]	SWC	
7795.0 [ft]	SWC	
7800.0 [ft]	SWC	
7800.0 [ft]	DC	
7810.0 [ft]	SWC	
7815.0 [ft]	SWC	
7820.0 [ft]	SWC	
7825.0 [ft]	SWC	
7830.0 [ft]	SWC	
7835.0 [ft]	SWC	
7840.0 [ft]	SWC	
7845.0 [ft]	C	
7900.0 [ft]	DC	



7922.0	[ft]	SWC	
7935.0	[ft]	SWC	
7940.0	[ft]	SWC	
7945.0	[ft]	SWC	
7985.0	[ft]	SWC	
8053.0	[ft]	C	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
154	NORDLAND GP
615	UTSIRA FM
731	NO FORMAL NAME
758	HORDALAND GP
758	SKADE FM
976	NO FORMAL NAME
1085	SKADE FM
1110	NO FORMAL NAME
1698	ROGALAND GP
1698	BALDER FM
1753	INTRA BALDER FM SS
1768	BALDER FM
1778	SELE FM
1794	HERMOD FM
1817	SELE FM
1821	LISTA FM
1868	TY FM
1895	SHETLAND GP
1895	EKOFISK FM
1920	CROMER KNOLL GP
1920	RØDBY FM
1938	SOLA FM
1980	VIKING GP
1980	DRAUPNE FM
1988	STATFJORD GP
2109	NO GROUP DEFINED
2109	SKAGERRAK FM
2391	BASEMENT



Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
143 1	pdf	0.07
143 2	pdf	0.71
143 3	pdf	1.15
143 4	pdf	0.32
143 5	pdf	0.12

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
143 01 WDSS General Information	pdf	0.20

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
143 01 25 11 1 Completion Report and Completion log	pdf	3.68

Dokumenter - Sökkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
143 01 NPD Paper No.2 Lithology Well 25 11 1	pdf	14.98
143 02 NPD Paper No.2 Interpreted Lithology log Well 25 11 1	pdf	63.32
143 03 NPD Paper No.28 Lithologic Correlation chart Well 25 11 1	pdf	0.48
143 04 NPD Paper No.28 Lithology Balder area Well 25 11 1	pdf	18.56
143 05 NPD Paper No.28 Log Correlation chart Profile NW-SE Well 25 11 1	pdf	0.25

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CAL	1232	1718
CDM	1232	2451
FDC	610	2461
IES	362	2462
LL-7	362	2459
MLL	362	2460
SGR	180	2457

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	179.0	36	179.0	0.00	LOT
SURF.COND.	20	363.0	26	363.0	0.00	LOT
INTERM.	13 3/8	1233.0	17 1/2	1244.0	0.00	LOT
OPEN HOLE		2460.0	12 1/4	2460.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
369	0.00			seawater	
1213	0.00			waterbased	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
991.00	[m]
1879.00	[m]
1896.00	[m]
1904.00	[m]
1938.00	[m]
1936.00	[m]
6215.00	[m]

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 brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
143 Formation pressure (Formasjonstrykk)	pdf	0.21

