



Generell informasjon

Brønnbane navn	34/10-34
Type	EXPLORATION
Formål	WILDCAT
Status	SUSPENDED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GULLFAKS
Funn	34/10-34 Gullfaks Vest
Brønn navn	34/10-34
Seismisk lokalisering	ST 8511-364& SP. 327P
Utvinningstillatelse	050
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	672-L
Boreinnretning	DEEPSEA BERGEN
Boredager	52
Borestart	10.04.1991
Boreslutt	31.05.1991
Frigitt dato	31.05.1993
Publiseringsdato	19.10.2006
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	TARBERT FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	139.0
Totalt målt dybde (MD) [m RKB]	2410.0
Totalt vertikalt dybde (TVD) [m RKB]	2410.0
Maks inklinasjon [°]	4.2
Temperatur ved bunn av brønnbanen [°C]	84
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	COOK FM
Geodetisk datum	ED50
NS grader	61° 13' 4.19" N



ØV grader	2° 8' 4.69" E
NS UTM [m]	6787519.76
ØV UTM [m]	453515.53
UTM sone	31
NPDID for brønnbanen	1747

Brønnhistorie

General

Well 34/10-34 was designed to drill the C6 structure west of the Gullfaks Field. Block 34/10 is situated in the Tampen Spur area and the 6C structure is an elongated, lens shaped rotated fault block dipping to the NW and bounded to the East and South by faults. At the well location the Heather Formation and uppermost Tarbert Formation have been eroded. The main objective of the well was to test the potential for hydrocarbons in the Brent Group sands west of the Gullfaks Field. No secondary prospects were defined.

Operations and results

Wildcat well 34/10-34 was spudded with the semi-submersible installation Deepsea Bergen on 10 April 1991 and drilled to TD at 2410 m in the Early Jurassic Cook Formation. While drilling the 26" hole some indications of gas was detected on ROV sonar, but no gas was observed during hole opening. Apart from some problems with stuck pipe, drilling went without significant problems. The screen from the drill string dropped into the MWD tool, thus preventing pulses from arriving at the surface. Due to this MWD is missing from 1349 m to 1675 m. The well was drilled with gel/CMC down to 795 m, with gypsum/PAC from 795 m to 1994 m, and with bentonite/Lignite from 1994 m to TD.

Spotted shows were observed in limestones in the interval 1558 m to 1678 m in the Hordaland Group, through the Balder Formation and into the upper part of the Lista Formation. The Viking Group was encountered at 1991 m and consisted of only two m of Heather Formation. The Tarbert Formation sandstones was encountered at 1993 m and proved oil. From electric logs and FMT pressure measurements the OWC was interpreted at 2013.5 m, with continuous oil shows on cores extending down to 2040 m. A weak oil show was observed in an SWC from the top of the Cook Formation sandstone at 2360 m. One segregated sample was taken at 2006.0 m. The sampling time for the 2-3/4 gallon chamber was 62.3 minutes and for the one-gallon chamber 34.8 minutes. The 2 3/4 gallon chamber contained 8 litres of oil and mud filtrate and 0.58 m³ gas and the one-gallon chamber contained 1.28 litres oil and 0.122 m³ gas. A total of 271 m conventional core was recovered in eleven cores in the Brent Group (1995 m to 2273 m). Sixty sidewall cores were attempted and 52 were recovered.

The well was prepared for conversion to production well and suspended on 31 May 1991 as an oil discovery.

Testing

One drill stem test was performed in the Tarbert Formation from the perforated interval: 1994 - 2001 m. The well produced 1545 sm³/d oil with a density of 0.860 g/cm³ at standard conditions and 135784 sm³/d gas with a relative density of 0.682 g/cc through a 48/64" (19.05 mm) choke.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
790.00	2410.00

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

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1995.0	2011.0	[m]
2	2013.0	2039.0	[m]
3	2033.0	2067.8	[m]
4	2072.0	2096.0	[m]
5	2096.0	2121.3	[m]
6	2126.0	2150.0	[m]
7	2150.0	2170.0	[m]
8	2171.0	2198.0	[m]
9	2198.0	2226.2	[m]
10	2226.0	2254.0	[m]
11	2254.0	2273.0	[m]

Total kjerneprøve lengde [m]	272.3
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1995-2000m



2000-2005m



2005-2010m



2010-2017m



2017-2022m



2022-2027m



2027-2032m



2032-2037m



2037-2042m



2042-2047m



2047-2052m



2052-2057m



2057-2062m



2062-2067m



2067-2072m



2072-2077m



2077-2082m



2082-2087m



2087-2092m



2092-2096m



2096-2101m



2101-2106m



2106-2111m



2111-2116m



2116-2121m



2121-2126m



2126-2133m



2133-2138m



2138-2143m



2143-2148m



2148-2151m



2151-2156m



2156-2161m



2161-2166m



2166-2172m



2172-2177m



2177-2182m



2182-2187m



2187-2192m



2192-2197m



2197-2201m



2201-2206m



2206-2211m



2211-2216m



2216-2221m



2221-2226m



2226-2230m



2230-2235m



2235-2240m



2240-2245m



2245-2250m



2250-2255m



2265-2270m



2255-2260m



2260-2265m



2270-2273m



2121-2126m



2126-2133m



2133-2138m



2138-2143m



2143-2148m



2148-2151m



2151-2156m



2156-2161m



2161-2166m



2166-2172m



2172-2177m



2177-2182m



2182-2187m



2187-2192m



2192-2197m



2197-2201m



2201-2206m



2206-2211m



2211-2216m



2216-2221m



2221-2226m



2226-2230m



2230-2235m



2235-2240m



2240-2245m



2245-2250m



2250-2255m



2255-2260m



2260-2265m



2265-2270m



2270-2273m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
930.0	[m]	SWC	STATO
950.0	[m]	DC	GEOST
965.0	[m]	SWC	STATO
980.0	[m]	SWC	STATO
1010.0	[m]	DC	GEOST
1020.0	[m]	DC	GEOST
1042.0	[m]	SWC	STATO
1050.0	[m]	DC	GEOST



1070.0 [m]	DC	GEOST
1084.0 [m]	SWC	STATO
1108.0 [m]	SWC	STATO
1135.0 [m]	SWC	STATO
1162.0 [m]	SWC	STATO
1180.0 [m]	DC	GEOST
1190.0 [m]	DC	GEOST
1200.0 [m]	DC	GEOST
1226.0 [m]	SWC	STATO
1257.0 [m]	SWC	STATO
1268.0 [m]	SWC	STATO
1282.0 [m]	SWC	STATO
1300.0 [m]	DC	GEOST
1307.0 [m]	SWC	STATO
1313.0 [m]	SWC	STATO
1320.0 [m]	DC	GEOST
1340.0 [m]	SWC	STATO
1358.0 [m]	SWC	STATO
1378.0 [m]	SWC	STATO
1415.0 [m]	SWC	STATO
1430.0 [m]	DC	GEOST
1440.0 [m]	DC	GEOST
1460.0 [m]	DC	GEOST
1475.0 [m]	SWC	STATO
1490.0 [m]	DC	GEOST
1500.0 [m]	DC	GEOST
1515.0 [m]	SWC	STATO
1530.0 [m]	DC	GEOST
1550.0 [m]	DC	GEOST
1560.0 [m]	DC	GEOST
1580.0 [m]	SWC	STATO
1595.0 [m]	SWC	STATO
1605.0 [m]	SWC	STATO
1620.0 [m]	DC	GEOST
1640.0 [m]	DC	GEOST
1650.0 [m]	SWC	STATO
1665.0 [m]	SWC	STATO
1680.0 [m]	DC	GEOST
1700.0 [m]	DC	GEOST
1710.0 [m]	DC	GEOST



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 13.5.2024 - 22:32

1730.0 [m]	DC	GEOST
1740.0 [m]	DC	GEOST
1760.0 [m]	DC	GEOST
1770.0 [m]	DC	GEOST
1790.0 [m]	DC	GEOST
1800.0 [m]	DC	GEOST
1810.0 [m]	DC	GEOST
1830.0 [m]	DC	GEOST
1840.0 [m]	DC	GEOST
1860.0 [m]	DC	GEOST
1870.0 [m]	DC	GEOST
1890.0 [m]	DC	GEOST
1900.0 [m]	DC	GEOST
1920.0 [m]	DC	GEOST
1930.0 [m]	DC	GEOST
1950.0 [m]	DC	GEOST
1960.0 [m]	DC	GEOST
1980.0 [m]	DC	GEOST
1985.0 [m]	SWC	STATO
1990.0 [m]	DC	GEOST
1995.5 [m]	C	OD
1996.6 [m]	C	OD
1996.7 [m]	C	OD
1997.6 [m]	C	OD
1998.5 [m]	C	OD
1999.4 [m]	C	OD
1999.4 [m]	C	OD
2000.5 [m]	C	OD
2006.0 [m]	C	GEOSTRAT
2006.1 [m]	C	OD
2009.0 [m]	C	GEOSTR
2013.0 [m]	C	GEOSTR
2028.0 [m]	C	GEOSTR
2035.0 [m]	C	GEOSTR
2035.0 [m]	C	GEOSTR
2053.0 [m]	C	GEOSTR
2056.0 [m]	C	GEOSTR
2063.0 [m]	C	GEOSTR
2066.0 [m]	C	GEOSTR
2070.0 [m]	C	GEOSTR



2075.0	[m]	C	GEOSTR
2077.0	[m]	C	GEOSTR
2083.0	[m]	C	GEOSTR
2101.0	[m]	C	GEOSTR
2109.0	[m]	C	GEOSTR
2112.0	[m]	C	GEOSTR
2120.0	[m]	C	GEOSTR
2122.0	[m]	C	GEOSTR
2132.0	[m]	C	GEOSTR
2136.0	[m]	C	GEOSTR
2140.0	[m]	C	GEOSTR
2144.0	[m]	C	GEOSTR
2150.0	[m]	C	GEOSTR
2162.0	[m]	C	GEOSTR
2167.0	[m]	C	GEOSTR
2175.0	[m]	C	GEOSTR
2177.0	[m]	C	GEOSTR
2231.0	[m]	C	GEOSTR
2249.0	[m]	C	GEOSTR
2252.0	[m]	C	GEOSTR
2257.0	[m]	C	GEOSTR
2263.0	[m]	C	GEOSTR
2264.0	[m]	C	GEOSTR
2267.0	[m]	C	GEOSTR
2273.0	[m]	C	GEOSTR
2282.0	[m]	C	GEOSTR
2295.0	[m]	SWC	STATOIL
2312.5	[m]	SWC	STATOI
2325.0	[m]	SWC	STATOI
2332.5	[m]	SWC	STATOI
2350.0	[m]	SWC	STATOI
2363.0	[m]	SWC	STATOI
2369.0	[m]	DC	GEOSTRAT
2382.0	[m]	SWC	STATOIL
2387.0	[m]	DC	GEOSTRAT
2399.5	[m]	SWC	STATOIL
2410.0	[m]	SWC	STATOI



Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	TEST1	2001.00	1994.00		23.05.1991 - 12:15	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
163	NORDLAND GP
923	HORDALAND GP
1600	ROGALAND GP
1600	BALDER FM
1660	LISTA FM
1806	SHETLAND GP
1991	VIKING GP
1991	HEATHER FM
1993	BRENT GP
1993	TARBERT FM
2082	NESS FM
2171	ETIVE FM
2188	RANNOCH FM
2268	BROOM FM
2275	DUNLIN GP
2275	DRAKE FM
2357	COOK FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1747_1	pdf	1.78

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1747_01_WDSS_General_Information	pdf	0.52





1747 02 WDSS completion log	pdf	0.16
---	-----	------

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1747 34 10 34 COMPLETION REPORT AND LOG	pdf	21.14

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1994	2001	19.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				75

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	1545	135784	0.860	0.680	87

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR CCL	140	2360
CBL VDL GR CCL	170	1510
CBL VDL GR CCL	1600	1994
CBL VDL GR CCL	1950	2360
CDL GR CAL	1675	1995
CDL GRCAL	781	1673
CNL LDL GR CAL	1982	2413
DITD LSS GR	781	1673
DITD LSS GR	1675	1995
DITE SDT NGT AMS	1982	2413





DLL MSFL GR	1982	2282
MWD - GR RES DIR	240	2410
NGS	1982	2413
RFT GR	2000	2362
SHDT GR	1982	2413
VELOCITY	765	2274

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
SURF.COND.	30	231.0	36	235.0	0.00	LOT
INTERM.	20	782.0	26	795.0	1.64	LOT
INTERM.	13 3/8	1675.0	17 1/2	1690.0	1.80	LOT
INTERM.	9 5/8	1982.0	12 1/4	1994.0	1.80	LOT
LINER	7	2405.0	8 1/2	2410.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
411	1.03	11.0		WATER BASED	
795	1.03			WATER BASED	
1265	1.30	22.0		WATER BASED	
1690	1.45	26.0		WATER BASED	
1870	1.64	29.0		WATER BASED	
1990	1.65	29.0		WATER BASED	
1995	1.65	26.0		WATER BASED	
2001	1.65	22.0		WATER BASED	
2182	1.65	25.0		WATER BASED	
2281	1.65	26.0		WATER BASED	
2410	1.65	23.0		WATER 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 brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.





Dokument navn	Dokument format	Dokument størrelse [KB]
1747 Formation pressure (Formasjonstrykk)	pdf	0.22

