



Generell informasjon

Brønnbane navn	6204/11-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6204/11-1
Brønn navn	6204/11-1
Seismisk lokalisering	ST 9202- IN-LINE 222 & CDP 497
Utvinningstillatelse	175
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	795-L
Boreinnretning	DEEPSEA BERGEN
Boredager	34
Borestart	12.10.1994
Boreslutt	14.11.1994
Frigitt dato	14.11.1996
Publiseringsdato	29.05.2002
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	NO FORMAL NAME
2. nivå med hydrokarboner, alder	LATE JURASSIC
2. nivå med hydrokarboner, formasjon	INTRA HEATHER FM SS
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	199.0
Totalt målt dybde (MD) [m RKB]	2966.0
Totalt vertikalt dybde (TVD) [m RKB]	2961.6
Maks inklinasjon [°]	13
Temperatur ved bunn av brønnbanen [°C]	83
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	GREY BEDS (INFORMAL)



Geodetisk datum	ED50
NS grader	62° 11' 16.96" N
ØV grader	4° 23' 57.85" E
NS UTM [m]	6896081.78
ØV UTM [m]	572844.35
UTM sone	31
NPDID for brønnbanen	2205

Brønnhistorie

General

The main objectives for well 6204/11-1 was to test commercial reserves of hydrocarbons in sandstones of Middle Jurassic age and in sandstones of Turonian age. A secondary objective was to test the play concept and possibly prove hydrocarbons in an Upper Jurassic sandstone.

Operations and results

Well 6204/11-1 was spudded on 10 October 1994 with the semi-submersible rig "Deepsea Bergen" and drilled to 2966 m in the Triassic Grey Beds. The 30", 20" and 13 3/8" casings strings were successfully set. The 9 5/8" casing was planned but left out. The 12 1/4" hole was drilled using a packed bottom hole assembly. The vertical hole was obtained at high weight on bit and reduced bottom hole assembly failures due to shock / vibration effects. No drilling problems were encountered. The well was drilled with pre-hydrated bentonite (PHB) to 540 m, and KCl polymer mud from there to TD.

The well proved, with some exception, the geological model. Sandstones of both Upper and Middle Jurassic age were encountered. The well was however terminated in Triassic sediments not in the basement as prognosed.

The well proved hydrocarbons with low saturation from 2029 to 2046 m in sandstone of Turonian age. The top of the Jurassic prospect was penetrated 23 m deeper than prognosed and proved to be gas bearing. The gas-water contact was found at 2792.5 m TVD RKB (2769.5 m TVD MSL). Good oil shows were observed in the cores below the gas-water contact and measurements from the cores indicate immature oil with low saturation below the gas - water contact.

Six cores were cut, three in the Cretaceous and three in the Jurassic. FMT and RCI wire line samples were taken at 1938 m (gas and mud filtrate), 2032.5 m (mud filtrate and small amounts of oil), 2043.8 m (mud, mud filtrate, and oil film), and 2787 m (mud filtrate and gas).

The well was plugged and abandoned on 14 November 1994 as as a gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
545.00	2964.00



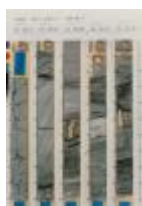
Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2008.0	2016.0	[m]
2	2016.0	2025.8	[m]
3	2133.0	2158.3	[m]
4	2778.0	2793.0	[m]
5	2793.5	2818.2	[m]
6	2818.2	2846.0	[m]

Total kjerneprøve lengde [m]	110.6
Kjerner tilgjengelig for prøvetaking?	YES

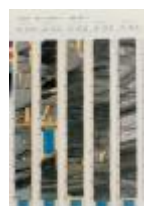
Kjernebilder



2008-2013m



2013-2026m



2026-2021m



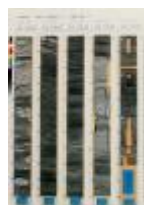
2021-2025m



2133-2138m



2138-2143m



2143-2148m



2148-2153m



2153-2158m



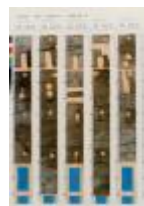
2158-2159m



2778-2783m



2783-2788m



2788-2793m



2793-2794m



2794-2798m



2798-2803m



2803-2808m



2808-2813m



2813-2818m



2818-2819m



2818-2823m



2823-2828m



2828-2833m



2833-2838m



2838-2843m



2843-2846m

Palynologiske preparater i Søkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
650.0	[m]	DC	RRI
675.0	[m]	DC	RRI
690.0	[m]	DC	RRI
710.0	[m]	DC	RRI
725.0	[m]	DC	RRI
740.0	[m]	DC	RRI
760.0	[m]	DC	RRI
766.0	[m]	DC	RRI
770.0	[m]	DC	STATO
790.0	[m]	DC	RRI
810.0	[m]	DC	RRI
830.0	[m]	DC	RRI
840.0	[m]	DC	RRI
853.0	[m]	SWC	STATO
870.0	[m]	SWC	STATO
880.0	[m]	DC	RRI



900.0 [m]	DC	RRI
920.0 [m]	DC	RRI
935.0 [m]	DC	RRI
943.0 [m]	SWC	STATO
960.0 [m]	DC	RRI
975.0 [m]	DC	RRI
990.0 [m]	DC	RRI
1005.0 [m]	DC	RRI
1010.0 [m]	SWC	STATO
1025.0 [m]	DC	RRI
1040.0 [m]	DC	RRI
1055.0 [m]	DC	RRI
1072.0 [m]	SWC	STATO
1085.0 [m]	DC	RRI
1104.0 [m]	SWC	STATO
1111.0 [m]	SWC	STATO
1120.0 [m]	DC	RRI
1130.0 [m]	DC	RRI
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1170.0 [m]	DC	RRI
1180.0 [m]	DC	RRI
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1350.0 [m]	DC	RRI
1360.0 [m]	DC	RRI
1370.0 [m]	DC	RRI



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1395.0 [m]	DC	RRI
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1470.0 [m]	DC	RRI
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1490.0 [m]	DC	RRI
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1560.0 [m]	DC	RRI
1575.0 [m]	DC	RRI
1590.0 [m]	DC	RRI
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1650.0 [m]	DC	RRI
1665.0 [m]	DC	RRI
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1710.0 [m]	DC	RRI
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1740.0 [m]	DC	RRI
1770.0 [m]	DC	RRI
1785.0 [m]	DC	RRI
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1815.0 [m]	DC	RRI
1830.0 [m]	DC	RRI
1845.0 [m]	DC	RRI
1860.0 [m]	DC	RRI
1867.0 [m]	SWC	STATO
1887.0 [m]	DC	RRI
1900.0 [m]	SWC	STATO



1911.0	[m]	SWC	STATO
1920.5	[m]	SWC	STATO
1935.0	[m]	SWC	RRI
1950.0	[m]	DC	RRI
1965.0	[m]	DC	RRI
1978.0	[m]	SWC	STATO
1995.0	[m]	DC	RRI
2008.2	[m]	DC	RRI
2010.8	[m]	C	RRI
2014.0	[m]	C	RRI
2016.9	[m]	C	RRI
2020.0	[m]	C	RRI
2022.7	[m]	C	RRI
2034.0	[m]	DC	RRI
2040.0	[m]	DC	RRI
2046.0	[m]	DC	RRI
2055.0	[m]	SWC	STATO
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2079.0	[m]	DC	RRI
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2093.0	[m]	SWC	STATO
2100.0	[m]	DC	RRI
2106.0	[m]	DC	RRI
2110.0	[m]	SWC	STATO
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2130.0	[m]	DC	RRI
2133.7	[m]	C	RRI
2136.8	[m]	C	RRI
2139.9	[m]	C	RRI
2142.3	[m]	C	RRI
2145.4	[m]	DC	RRI
2145.4	[m]	C	RRI
2148.3	[m]	C	RRI
2151.6	[m]	C	RRI
2154.7	[m]	C	RRI
2157.7	[m]	C	RRI
2166.0	[m]	DC	RRI
2172.0	[m]	DC	RRI



2178.0	[m]	DC	RRI
2190.0	[m]	SWC	STATO
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2410.0	[m]	SWC	STATO
2415.0	[m]	DC	RRI
2419.5	[m]	SWC	STATO
2433.0	[m]	DC	RRI
2435.0	[m]	SWC	STATO
2443.0	[m]	DC	RRI
2445.0	[m]	SWC	STATO
2448.0	[m]	DC	RRI
2454.0	[m]	DC	RRI



2460.0 [m]	DC	RRI
2469.0 [m]	DC	RRI
2476.5 [m]	DC	STATO
2481.0 [m]	DC	RRI
2490.0 [m]	DC	RRI
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2505.0 [m]	DC	RRI
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2526.0 [m]	DC	RRI
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2901.0 [m]	DC	RRI
2903.0 [m]	SWC	STATO
2910.0 [m]	DC	RRI

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
222	NORDLAND GP
635	HORDALAND GP
750	ROGALAND GP
750	UNDIFFERENTIATED
1115	EGGA FM (INFORMAL)
1318	SHETLAND GP
1318	KYRRE FM
2001	NO FORMAL NAME
2088	KYRRE FM
2407	BLODØKS FM
2422	SVARTE FM
2602	VIKING GP



2602	HEATHER FM
2772	INTRA HEATHER FM SS
2846	NO FORMAL NAME
2916	GREY BEDS (INFORMAL)

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
2205	pdf	0.44

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2205_1	pdf	1.66
2205_2	pdf	1.18

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2205_6204_11_1_COMPLETION_REPORT_AND_LOG	pdf	27.65

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DLL DAC ZDL CNL SL	527	2971
FMT QDYNE CHT GR	1938	2880
FMT QDYNE CHT GR SAMPLE	1938	2051
HRDIP	1815	2950
MWD RGD	286	2008
MWD RGD	2158	2966
SWC GR	564	1805
SWC GR	1836	2445
SWC GR	2363	2965
VSP	400	2965





Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm ³]	Type formasjonstest
CONDUCTOR	30	283.0	36	285.0	0.00	LOT
INTERM.	20	528.0	26	530.0	1.34	LOT
INTERM.	13 3/8	1812.0	17 1/2	1830.0	1.58	LOT
OPEN HOLE		2966.0	12 1/4	2966.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
382	1.03			WATER BASED	04.11.1994
540	1.03	31.0	17.0	WATER BASED	04.11.1994
540	1.03	26.0	14.5	WATER BASED	04.11.1994
820	1.07	17.0	9.0	WATER BASED	04.11.1994
1375	1.13	21.0	14.0	WATER BASED	04.11.1994
1712	1.27	27.0	10.5	WATER BASED	11.11.1994
1830	1.18	22.0	15.0	WATER BASED	04.11.1994
1830	1.22	22.0	14.5	WATER BASED	04.11.1994
1975	1.21	18.0	14.0	WATER BASED	04.11.1994
2015	1.20	22.0	13.5	WATER BASED	28.10.1994
2044	1.27	28.0	10.5	WATER BASED	09.11.1994
2065	1.27	28.0	14.0	WATER BASED	31.10.1994
2065	1.27	27.0	13.5	WATER BASED	31.10.1994
2154	1.27	27.0	13.0	WATER BASED	31.10.1994
2194	1.27	27.0	13.5	WATER BASED	31.10.1994
2638	1.26	28.0	14.0	WATER BASED	01.11.1994
2680	1.27	18.0	8.0	WATER BASED	11.11.1994
2778	1.26	29.0	13.5	WATER BASED	03.11.1994
2787	1.27	28.0	10.5	WATER BASED	09.11.1994
2818	1.26	29.0	13.5	WATER BASED	03.11.1994
2846	1.26	28.0	12.5	WATER BASED	04.11.1994
2877	1.27	28.0	10.5	WATER BASED	09.11.1994
2877	1.27	28.0	10.5	WATER BASED	11.11.1994
2966	1.26	29.0	11.5	WATER BASED	07.11.1994
2966	1.27	28.0	10.5	WATER BASED	07.11.1994



2966	1.27	29.0	12.0	WATER BASED	07.11.1994
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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]
2205 Formation pressure (Formasjonstrykk)	pdf	0.28

