Generell informasjon

Brønnbane navn	7121/5-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Felt	SNØHVIT
Funn	7121/5-2 (Snøhvit Beta)
Brønn navn	7121/5-2
Seismisk lokalisering	ST 8310 - 385 SP. 760
Utvinningstillatelse	110
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	516-L
Boreinnretning	ROSS ISLE
Boredager	42
Borestart	26.05.1986
Boreslutt	06.07.1986
Frigitt dato	06.07.1988
Publiseringsdato	05.01.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	STØ FM
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	328.0
Totalt målt dybde (MD) [m RKB]	2543.0
Totalt vertikalt dybde (TVD) [m RKB]	2540.0
Maks inklinasjon [°]	4.3
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	FRUHOLMEN FM
Geodetisk datum	ED50
NS grader	71° 40' 20.79'' N
ØV grader	21° 39' 24.42'' E
NS UTM [m]	7952737.91

ØV UTM [m]	523051.48
UTM sone	34
NPDID for brønnbanen	907

Brønnhistorie

General

Well 7121/5-2 is located ca 10 km northeast of the Snøhvit Field. The purpose of the well was to test the hydrocarbon accumulation on the Beta-structure in sandstones of the Early to Middle Jurassic Stø-formation.

Operations and results

The well was spudded with the semi-submersible installation Ross Isle on 26 May 1986 and drilled to TD at 2543 m in Late Triassic sediments (Rhaetian age). The well was drilled with seawater and hi-vis pills down to 850 m, with gypsum/polymer mud from 850 m to 1977 m, and with gypsum/polymer/NaCl mud from 1977 m to TD.

Hydrocarbon bearing Middle Jurassic sandstones in the Stø Formation were encountered at 2323 m. The gas-bearing zone extends from 2323 m to 2346 m. The gas zone is sealed from the underlying oil zone by a 6 m thick dense shale layer, which prevents the exact location of a gas/oil contact. The oil-bearing zone extends from 2352 m 2358.5 m. The oil water contact at 2358.5 m was picked both from logs and core data. Three cores were cut in the Stø formation (2324 m to 2400 m). A total of 9 FMT runs were performed; two to obtain pressure points and 7 to obtain segregated samples. The first run resulted in 32 pre test pressure points out of 38 attempts, in the interval 2323.5 m to 2369.0 m. Eighteen points were taken in the gas zone, 6 in the tight zone, 4 in the oil zone and 4 were in the water zone. The second run resulted in 9 pre test pressure points of nine attempts in the interval 2358 m to 2361 m. Seven attempts to obtain segregated samples resulted in 5 good samples, two at 2355 m, one at 2326 m, and two at 2353.5 m.

The well was permanently abandoned on 6 June 1986 as an oil and gas discovery.

Testing

Due to the presence of hydrogen sulphide in the well, no tests were performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
460.00	2539.00

Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2324.0	2342.8	[m]
2	2343.0	2371.0	[m]
3	2371.0	2399.0	[m]

Total kjerneprøve lengde [m]	74.8
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder


2324-2330m


2330-2336m


2336-2342m


2341-2342m


2343-2349m


2349-2355m


2355-2361m


2361-2367m


2367-2371m


2371-2377m


2377-2383m


2383-2389m


2389-2395m


2395-2399m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1504.0	[m]	DC	GEARHA
1516.0	[m]	DC	GEARHA
1534.0	[m]	DC	GEARHA
1540.0	[m]	DC	GEARHA

1552.0	[m]	DC	GEARHA
1564.0	[m]	DC	GEARHA
1576.0	[m]	DC	GEARHA
1588.0	[m]	DC	GEARHA
1600.0	[m]	DC	GEARHA
1612.0	[m]	DC	GEARHA
1624.0	[m]	DC	GEARHA
1636.0	[m]	DC	GEARHA
1648.0	[m]	DC	GEARHA
1660.0	[m]	DC	GEARHA
1672.0	[m]	DC	GEARHA
1684.0	[m]	DC	GEARHA
1696.0	[m]	DC	GEARHA
1708.0	[m]	DC	GEARHA
1720.0	[m]	DC	GEARHA
1735.0	[m]	DC	GEARHA
1744.0	[m]	DC	GEARHA
1756.0	[m]	DC	GEARHA
1768.0	[m]	DC	GEARHA
1780.0	[m]	DC	GEARHA
1792.0	[m]	DC	GEARHA
1804.0	[m]	DC	GEARHA
1816.0	[m]	DC	GEARHA
1828.0	[m]	DC	GEARHA
1840.0	[m]	DC	GEARHA
1852.0	[m]	DC	GEARHA
1864.0	[m]	DC	GEARHA
1876.0	[m]	DC	GEARHA
1888.0	[m]	DC	GEARHA
1900.0	[m]	DC	GEARHA
1912.0	[m]	DC	GEARHA
1924.0	[m]	DC	GEARHA
1927.5	[m]	SWC	GEARHA
1936.0	[m]	DC	GEARHA
1951.0	[m]	DC	GEARHA
1963.0	[m]	DC	GEARHA
1972.0	[m]	DC	GEARHA
1982.0	[m]	SWC	STATOIL
1984.0	[m]	DC	GEARHA
1996.0	[m]	DC	GEARHA

2008.0	[m]	DC	GEARHA
2020.0	[m]	DC	GEARHA
2032.0	[m]	DC	GEARHA
2044.0	[m]	DC	GEARHA
2054.0	[m]	SWC	STATOIL
2056.0	[m]	DC	GEARHA
2062.0	[m]	SWC	GEARHA
2062.0	[m]	SWC	STATOIL
2068.0	[m]	DC	GEARHA
2080.0	[m]	DC	GEARHA
2080.0	[m]	SWC	STATOIL
2092.0	[m]	DC	GEARHA
2104.0	[m]	DC	GEARHA
2116.0	[m]	DC	GEARHA
2121.0	[m]	SWC	STATOIL
2128.0	[m]	DC	GEARHA
2140.0	[m]	DC	GEARHA
2152.0	[m]	DC	GEARHA
2164.0	[m]	DC	GEARHA
2168.0	[m]	SWC	GEARHA
2168.0	[m]	SWC	STATOIL
2175.0	[m]	SWC	GEARHA
2176.0	[m]	DC	GEARHA
2178.0	[m]	SWC	GEARHA
2178.0	[m]	DC	STATOIL
2184.0	[m]	SWC	GEARHA
2187.0	[m]	SWC	GEARHA
2187.0	[m]	SWC	STATOIL
2188.0	[m]	DC	GEARHA
2195.0	[m]	SWC	GEARHA
2200.0	[m]	DC	GEARHA
2207.0	[m]	SWC	GEARHA
2207.0	[m]	SWC	STATOIL
2212.0	[m]	DC	GEARHA
2220.5	[m]	SWC	STATOIL
2224.0	[m]	DC	GEARHA
2236.0	[m]	DC	GEARHA
2248.0	[m]	DC	GEARHA
2249.0	[m]	SWC	GEARHA
2260.0	[m]	DC	GEARHA

2264.5	[m]	SWC	GEARHA
2272.0	[m]	DC	GEARHA
2284.0	[m]	DC	GEARHA
2286.0	[m]	SWC	GEARHA
2296.0	[m]	DC	GEARHA
2303.0	[m]	SWC	GEARHA
2308.0	[m]	DC	GEARHA
2312.5	[m]	SWC	GEARHA
2320.0	[m]	DC	GEARHA
2321.0	[m]	SWC	GEARHA
2324.5	[m]	C	GEARHA
2328.6	[m]	C	GEARHA
2332.0	[m]	DC	GEARHA
2339.9	[m]	C	GEARHA
2344.0	[m]	DC	GEARHA
2344.0	[m]	DC	GEARHA
2344.8	[m]	C	GEARHA
2350.4	[m]	C	GEARHA
2356.0	[m]	DC	GEARHA
2363.0	[m]	C	GEARHA
2368.0	[m]	DC	GEARHA
2375.1	[m]	C	GEARHA
2380.0	[m]	DC	GEARHA
2382.7	[m]	C	GEARHA
2397.0	[m]	C	GEARHA
2398.7	[m]	C	GEARHA
2404.0	[m]	DC	GEARHA
2416.0	[m]	DC	GEARHA
2425.0	[m]	DC	GEARHA
2432.0	[m]	SWC	GEARHA
2440.0	[m]	DC	GEARHA
2446.0	[m]	DC	GEARHA
2449.0	[m]	SWC	GEARHA
2452.0	[m]	DC	GEARHA
2460.0	[m]	SWC	GEARHA
2461.0	[m]	DC	GEARHA
2475.0	[m]	DC	GEARHA
2480.0	[m]	DC	GEARHA
2488.0	[m]	DC	GEARHA
2500.0	[m]	DC	GEARHA

2503.5	[m]	SWC	GEARHA
2512.0	[m]	DC	GEARHA
2519.0	[m]	SWC	GEARHA
2524.0	[m]	DC	GEARHA
2528.0	[m]	DC	GEARHA
2534.0	[m]	SWC	GEARHA
2539.0	[m]	DC	GEARHA

Litostratigrafi

Top depth [mMD RKB]	Lithostrat. unit
350	NORDLAND GP
449	SOTBAKKEN GP
449	TORSK FM
934	NYGRUNNEN GP
934	KVITING FM
977	ADVENTDALEN GP
977	KOLMULE FM
1820	KOLJE FM
2079	KNURR FM
2260	HEKKINGEN FM
2305	FUGLEN FM
2323	KAPP TOSCANA GP
2323	STØ FM
2400	NORDMELA FM
2450	TUBÅEN FM
2503	FRUHOLMEN FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
907	pdf	0.33

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
907_1	pdf	2.43

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
907_01_WDSS_General_Information	pdf	0.21
907_02_WDSS_completion_log	pdf	0.22

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
907_71221_5_2_COMPLETION_REPORT_AND_LOG	pdf	21.23

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC AC CDL VDL GR	344	1898
CDL CNL GR	1897	2544
CDL GR	829	1939
COREGUN	1927	2540
DIFL BHC AC CDL GR SP CAL	829	1958
DIFL BHC AC GR SP CAL	1897	2644
DLL MLL GR	2293	2544
FMT	2323	2369
FMT	2328	2355
HR DIP	1897	2540
MWD - GR RES	499	1035
RLL - GR RES	2300	2550

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	449.0	36	452.0	0.00	LOT

SURF.COND.	20	829.0	26	1035.0	1.53	LOT
INTERM.	13 3/8	1898.4	17 1/2	1977.0	1.48	LOT
OPEN HOLE		2543.0	12 1/4	2543.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
390	1.08			WATER BASED	26.05.1986
453	1.08			WATER BASED	26.05.1986
453	0.00	800.0	11.0	WATERBASED	05.06.1986
524	1.10	600.0	12.7	WATER BASED	05.06.1986
848	1.10	600.0	14.8	WATER BASED	05.06.1986
1035	1.10	600.0	13.5	WATER BASED	05.06.1986
1035	0.00	800.0	29.4	WATERBASED	05.06.1986
1035	1.08	1000.0	28.3	WATER BASED	05.06.1986
1035	1.10	2400.0	7.2	WATER BASED	08.06.1986
1035	1.08	900.0	28.8	WATER BASED	05.06.1986
1169	1.10	2400.0	8.0	WATER BASED	08.06.1986
1415	1.13	2300.0	9.3	WATER BASED	09.06.1986
1580	1.14	2200.0	10.1	WATER BASED	11.06.1986
1754	1.15	2000.0	9.7	WATER BASED	12.06.1986
1874	1.16	2200.0	9.3	WATER BASED	15.06.1986
1977	0.00	2100.0	8.0	WATERBASED	15.06.1986
1977	1.30	2600.0	8.4	WATER BASED	15.06.1986
1977	1.16	2000.0	9.3	WATERBASED	15.06.1986
2060	1.30	2200.0	7.2	WATERBASED	17.06.1986
2135	1.28	1900.0	7.2	WATERBASED	18.06.1986
2217	1.26	1900.0	6.3	WATER BASED	19.06.1986
2293	1.25	1900.0	5.1	WATERBASED	23.06.1986
2324	1.28	2000.0	5.5	WATERBASED	23.06.1986
2363	1.27	1900.0	5.9	WATER BASED	23.06.1986
2399	1.27	1800.0	5.9	WATER BASED	23.06.1986
2431	1.27	1900.0	6.3	WATER BASED	24.06.1986
2470	1.26	2000.0	6.3	WATER BASED	25.06.1986
2484	1.26	2100.0	6.5	WATER BASED	30.06.1986
2507	1.26	2100.0	6.5	WATER BASED	26.06.1986
2507	1.26	2100.0	6.5	WATER BASED	30.06.1986
2543	1.26	2400.0	7.6	WATERBASED	30.06.1986

2543	1.26	2400.0	7.8	WATER BASED	30.06.1986
2543	1.26	2200.0	7.8	WATER BASED	30.06.1986

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]
907_Formation_pressure_(Formasjonstrykk)	pdf	0.28