



Generell informasjon

Brønnbane navn	7119/12-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7119/12-3
Brønn navn	7119/12-3
Seismisk lokalisering	738 - 232 SP 676
Utvinningstillatelse	060
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	376-L
Boreinnretning	DYVI DELTA
Boredager	116
Borestart	20.05.1983
Boreslutt	12.09.1983
Frigitt dato	12.09.1985
Publiseringsdato	11.02.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	JURASSIC
1. nivå med hydrokarboner, formasjon.	STØ FM
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	211.0
Totalt målt dybde (MD) [m RKB]	3314.0
Totalt vertikalt dybde (TVD) [m RKB]	3308.0
Maks inklinasjon [°]	7
Temperatur ved bunn av brønnbanen [°C]	136
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	NORDMELA FM
Geodetisk datum	ED50
NS grader	71° 14' 20.18" N
ØV grader	19° 44' 37.92" E



NS UTM [m]	7904727.31
ØV UTM [m]	454909.86
UTM sone	34
NPDID for brønnbanen	17

Brønnhistorie

General

The primary objective of wildcat 7119/12-3 was to test possible hydrocarbon accumulations in sandstones of Middle to Lower Jurassic age. Gas and condensate were discovered in the sandstone sequences. Planned TD was 3765 m.

Operations and results

Exploration well 7119/12-3 was spudded with the semi-submersible installation Dyvi Delta on 20 May 1982 and drilled to TD at 3314 m in the Early Jurassic Nordmela Formation. A total of 121 days was spent on this well including testing and a 9.5 days seamen's strike. The time estimate was 106 days. No major problems occurred due to drilling. The well was drilled using spud mud down to 303 m, with gel/seawater from 303 m to 716 m, with gypsum/polymer from 716 m to 1618 m, and with gel/lignosulphonate from 1618 m to TD.

Hydrocarbon accumulations were discovered in sandstone sequences between 3144 - 3285 m in the Stø Formation. From log evaluation the interval contained 118 m net sand. The gas/water contact at 3285 m is based on the log evaluation. Due to very tight and hard formation only two RFT pressure points were obtained out of 16 attempts (seal failures). Organic geochemical analyses found only poor source rock potential in the well. Shales in the Late Jurassic Hekkingen Formation from 3026 m to 3107 m had high TOC levels in the range 3% to 9%. However, with Hydrogen Indexes only in the range 30 - 40 mg HC/g TOC in non-caved, high-TOC samples, these shales are gas prone, and can not produce any significant quantities of liquid hydrocarbons. The well is immature down to ca 2300 m and reaches oil window maturity at ca 3000 m. Three cores were cut in the sandstones of the Middle to Early Jurassic Stø Formation. The two first were cut in the interval 3145 m to 3154.85 m with 100 % recovery. The third was cut from 3250 m to 3267 m with 97 % recovery. One RFT segregated sample was taken at 3187 m. The 2 3/4 -gallon chamber was bled off on the rig. It had an opening pressure of 38.9 bar and contained 0.226 m³ of gas and 9.5 l of mud filtrate with a condensate film on the top of the filtrate. The 1-gallon chamber was drained onshore and had an opening pressure of 54 bar at 17°C. It contained 22.2 l of gas and 3.525 l mud filtrate.

The well was permanently abandoned on 12 September 1983 as a gas/condensate discovery.

Testing

One DST was performed. The interval from 3185 m to 3195 m in the Stø Formation was perforated and production tested. The test flowed 956 900 Sm³ /day of gas with 15.2 Sm³ /day of condensate through a 64/64" choke. The gas contained 12.4 % CO₂. The permeability of the tested zone was estimated to 17.42 mD with an average porosity of 5.3 % and an average water saturation of 28.9 %. After the DST three runs with cased hole RFT was performed. The result from these was bad due to tight formation or sealing failures.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
310.00	3315.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3145.0	3148.3	[m]
2	3148.3	3154.9	[m]
3	3250.0	3266.5	[m]

Total kjerneprøve lengde [m]	26.4
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3145-3148m



3148-3154m



3256-3262m



3250-3256m



3262-3266m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
310.0	[m]	DC	RRI
330.0	[m]	DC	RRI
350.0	[m]	DC	RRI
370.0	[m]	DC	RRI
390.0	[m]	DC	RRI
410.0	[m]	DC	RRI
430.0	[m]	DC	RRI
450.0	[m]	DC	RRI
470.0	[m]	DC	RRI



490.0 [m]	DC	RRI
510.0 [m]	DC	RRI
530.0 [m]	DC	RRI
550.0 [m]	DC	RRI
570.0 [m]	DC	RRI
590.0 [m]	DC	RRI
610.0 [m]	DC	RRI
630.0 [m]	DC	RRI
650.0 [m]	DC	RRI
670.0 [m]	DC	RRI
690.0 [m]	DC	RRI
710.0 [m]	DC	RRI
730.0 [m]	DC	RRI
750.0 [m]	SWC	RRI
770.0 [m]	DC	RRI
790.0 [m]	DC	RRI
810.0 [m]	DC	RRI
817.0 [m]	SWC	RRI
830.0 [m]	DC	RRI
850.0 [m]	DC	RRI
870.0 [m]	DC	RRI
890.0 [m]	SWC	RRI
915.0 [m]	SWC	RRI
930.0 [m]	DC	RRI
945.0 [m]	SWC	RRI
960.0 [m]	DC	RRI
975.0 [m]	DC	RRI
990.0 [m]	DC	RRI
1005.0 [m]	DC	RRI
1016.0 [m]	SWC	RRI
1030.0 [m]	DC	RRI
1045.0 [m]	DC	RRI
1060.0 [m]	DC	RRI
1070.0 [m]	DC	RRI
1086.0 [m]	SWC	RRI
1100.0 [m]	DC	RRI
1130.0 [m]	DC	RRI
1145.0 [m]	DC	RRI
1180.0 [m]	DC	RRI
1195.0 [m]	DC	RRI



1205.0 [m]	DC	RRI
1212.0 [m]	SWC	RRI
1225.0 [m]	DC	RRI
1240.0 [m]	DC	RRI
1255.0 [m]	DC	RRI
1270.0 [m]	DC	RRI
1285.0 [m]	DC	RRI
1295.0 [m]	DC	RRI
1309.0 [m]	SWC	RRI
1325.0 [m]	DC	RRI
1340.0 [m]	DC	RRI
1355.0 [m]	DC	RRI
1363.0 [m]	SWC	RRI
1380.0 [m]	DC	RRI
1395.0 [m]	DC	RRI
1410.0 [m]	DC	RRI
1425.0 [m]	DC	RRI
1441.0 [m]	SWC	RRI
1455.0 [m]	DC	RRI
1470.0 [m]	DC	RRI
1495.0 [m]	DC	RRI
1495.0 [m]	SWC	RRI
1510.0 [m]	DC	RRI
1525.0 [m]	DC	RRI
1540.0 [m]	DC	RRI
1555.0 [m]	DC	RRI
1575.0 [m]	SWC	RRI
1595.0 [m]	DC	RRI
1600.0 [m]	DC	RRI
1615.0 [m]	DC	RRI
1625.0 [m]	DC	RRI
1630.0 [m]	DC	RRI
1645.0 [m]	DC	RRI
1660.0 [m]	DC	RRI
1675.0 [m]	DC	RRI
1690.0 [m]	DC	RRI
1695.0 [m]	DC	RRI
1705.0 [m]	DC	RRI
1720.0 [m]	DC	RRI
1735.0 [m]	DC	RRI



1750.0 [m]	DC	RRI
1765.0 [m]	DC	RRI
1780.0 [m]	DC	RRI
1795.0 [m]	DC	RRI
1810.0 [m]	DC	RRI
1825.0 [m]	DC	RRI
1835.0 [m]	SWC	RRI
1840.0 [m]	DC	RRI
1855.0 [m]	DC	RRI
1870.0 [m]	DC	RRI
1885.0 [m]	DC	RRI
1895.0 [m]	DC	RRI
1900.0 [m]	DC	RRI
1915.0 [m]	DC	RRI
1930.0 [m]	DC	RRI
1945.0 [m]	DC	RRI
1960.0 [m]	DC	RRI
1975.0 [m]	DC	RRI
1990.0 [m]	DC	RRI
1995.0 [m]	DC	RRI
2005.0 [m]	DC	RRI
2020.0 [m]	DC	RRI
2035.0 [m]	DC	RRI
2050.0 [m]	DC	RRI
2065.0 [m]	DC	RRI
2080.0 [m]	DC	RRI
2095.0 [m]	DC	RRI
2110.0 [m]	DC	RRI
2125.0 [m]	DC	RRI
2140.0 [m]	DC	RRI
2155.0 [m]	DC	RRI
2170.0 [m]	DC	RRI
2185.0 [m]	DC	RRI
2195.0 [m]	DC	RRI
2200.0 [m]	DC	RRI
2208.0 [m]	SWC	RRI
2215.0 [m]	DC	RRI
2230.0 [m]	DC	RRI
2245.0 [m]	DC	RRI
2260.0 [m]	DC	RRI



2260.0	[m]	SWC	RRI
2275.0	[m]	DC	RRI
2290.0	[m]	DC	RRI
2293.5	[m]	SWC	RRI
2297.5	[m]	SWC	RRI
2305.0	[m]	DC	RRI
2320.0	[m]	DC	RRI
2335.0	[m]	DC	RRI
2348.0	[m]	SWC	RRI
2350.0	[m]	DC	RRI
2365.0	[m]	DC	RRI
2380.0	[m]	DC	RRI
2395.0	[m]	DC	RRI
2397.5	[m]	SWC	RRI
2400.0	[m]	SWC	RRI
2410.0	[m]	DC	RRI
2425.0	[m]	DC	RRI
2440.0	[m]	DC	RRI
2450.0	[m]	SWC	RRI
2450.0	[m]	DC	RRI
2455.0	[m]	DC	RRI
2470.0	[m]	DC	RRI
2480.0	[m]	DC	RRI
2489.0	[m]	SWC	RRI
2495.0	[m]	DC	RRI
2510.0	[m]	DC	RRI
2525.0	[m]	DC	RRI
2542.5	[m]	SWC	RRI
2550.0	[m]	DC	RRI
2555.0	[m]	DC	RRI
2570.0	[m]	DC	RRI
2591.0	[m]	SWC	RRI
2600.0	[m]	DC	RRI
2615.0	[m]	DC	RRI
2630.0	[m]	DC	RRI
2645.0	[m]	DC	RRI
2650.0	[m]	SWC	RRI
2650.0	[m]	DC	RRI
2660.0	[m]	DC	RRI
2687.0	[m]	SWC	RRI



2705.0	[m]	DC	RRI
2712.0	[m]	SWC	RRI
2735.0	[m]	DC	RRI
2750.0	[m]	DC	RRI
2755.0	[m]	SWC	RRI
2765.0	[m]	DC	RRI
2780.0	[m]	DC	RRI
2795.0	[m]	DC	RRI
2810.0	[m]	DC	RRI
2825.0	[m]	DC	RRI
2850.0	[m]	DC	RRI
2855.0	[m]	DC	RRI
2870.0	[m]	DC	RRI
2900.0	[m]	DC	RRI
2915.0	[m]	DC	RRI
2930.0	[m]	DC	RRI
2950.0	[m]	DC	RRI
2955.0	[m]	DC	RRI
2960.0	[m]	DC	RRI
2965.0	[m]	DC	RRI
2975.0	[m]	DC	RRI
2980.0	[m]	DC	RRI
3005.0	[m]	DC	RRI
3035.0	[m]	DC	RRI
3050.0	[m]	DC	RRI
3080.0	[m]	DC	RRI
3102.0	[m]	SWC	RRI
3110.0	[m]	DC	RRI
3123.0	[m]	SWC	RRI
3140.0	[m]	DC	RRI
3155.0	[m]	DC	RRI
3170.0	[m]	DC	RRI
3200.0	[m]	DC	RRI
3300.0	[m]	DC	RRI
3314.0	[m]	C	RRI

Oljeprøver i Sökkeldirektoratet



Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	TEST1	3185.00	3195.00		03.09.1983 - 13:15	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
240	NORDLAND GP
442	SOTBAKKEN GP
442	TORSK FM
1202	NYGRUNNEN GP
1202	KVEITE FM
1456	ADVENTDALEN GP
1456	KOLMULE FM
2715	KOLJE FM
2953	KNURR FM
3026	HEKKINGEN FM
3107	FUGLEN FM
3144	KAPP TOSCANA GP
3144	STØ FM
3299	NORDMELA FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
17	pdf	0.52

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
17_1	pdf	2.69

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter





Dokument navn	Dokument format	Dokument størrelse [KB]
17_01_WDSS_General_Information	pdf	0.17
17_02_WDSS_completion_log	pdf	0.31

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
17_01_Completion_Report	pdf	15.64
17_02_Completion_log	pdf	1.50

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	3185	3195	25.4

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

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0	17	957000	0.797	0.722	

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL	450	1603
CBL VDL	1000	3136
CBL VDL	2800	3234
CST	700	1618
CST	1629	3118
CST	2293	2790
CST	2815	3135
CST	3165	3307





DLL GR	3136	3315
DLL GR	3136	3315
HDT	1603	3144
ISF BHC GR SP CAL	240	1617
ISF BHC MSFL GR SP CAL	1603	3315
LDL CNL GR	302	709
LDL CNL GR	3136	3315
LDL GR	700	3142
RFT	3147	3283
SHDT	3136	3315
VELOCITY	840	3314

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	302.0	36	303.5	0.00	LOT
SURF.COND.	20	700.0	26	716.0	1.76	LOT
INTERM.	13 3/8	1603.0	17 1/2	1618.0	1.90	LOT
INTERM.	9 5/8	3135.0	12 1/4	3140.0	2.06	LOT
LINER	7	3314.0	8 1/2	3314.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
716	1.25	45.0	36.0	spud mud	
1510	1.15	50.0	25.0	water based	
1860	1.35	51.0	13.0	water based	
2372	1.47	52.0	18.0	water based	
2800	1.65	51.0	15.0	water based	
3005	1.65	56.0	18.0	water based	
3144	1.72	60.0	14.0	water based	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
3265.60	[m]
3253.85	[m]



3154.80	[m]
3147.90	[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]
17 Formation pressure (Formasjonstrykk)	pdf	0.18

