



Generell informasjon

Brønnbane navn	7121/4-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Felt	SNØHVIT
Funn	7121/4-2 (Snøhvit Nord)
Brønn navn	7121/4-2
Seismisk lokalisering	TNGS 83 - 366 SP. 805
Utvinningstillatelse	099
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	449-L
Boreinnretning	WEST VANGUARD
Boredager	76
Borestart	29.01.1985
Boreslutt	14.04.1985
Frigitt dato	14.04.1987
Publiseringsdato	11.02.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	STØ FM
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	TUBÅEN FM
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	317.0
Totalt målt dybde (MD) [m RKB]	2800.0
Totalt vertikalt dybde (TVD) [m RKB]	2798.5
Maks inklinasjon [°]	3.7
Temperatur ved bunn av brønnbanen [°C]	95
Eldste penetrerte alder	LATE TRIASSIC



Eldste penetrerte formasjon	FRUHOLMEN FM
Geodetisk datum	ED50
NS grader	71° 39' 26.09" N
ØV grader	21° 3' 45.96" E
NS UTM [m]	7950918.80
ØV UTM [m]	502204.76
UTM sone	34
NPDID for brønnbanen	461

Brønnhistorie

**General**

Wildcat well 7121/4-2 was drilled on a structure separate from and North of the Snøhvit Field in the Hammerfest Basin. The main objective was to test possible hydrocarbon accumulations in Middle to Early Jurassic sandstones. Prognosed TD was at 2800 m in rocks of Triassic age.

Operations and results

Wildcat well 7121/4-2 was spudded with the semi-submersible installation West Vanguard on and drilled to TD at 2800 m in the Late Triassic Fruholmen Formation. Drilling proceeded without significant problems to 2460 m, in the middle of an Oxfordian shale, where cavings caused some tight spot problems while setting casing. Rough weather caused some delay in the drilling schedule. The well was drilled with bentonite spud mud down to 417 m, with pre-hydrated bentonite from 417 m to 900 m, with gypsum/lignosulphonate from 900 m to 2455 m, and with lignosulphonate from 2455 m to TD.

Reservoir top, Stø Formation, was encountered at 2480 m. RFT tests, samples and log responses indicated gas down to a gas/water contact at 2517 m. The gas zone consists of an interbedded sandstone/shale sequence with fair/poor reservoir properties. Fluorescence and cut was recorded throughout the cored section, which included the reservoir section. In addition oil stain was seen on a core from 2541.5 m to 2551 m. There was also a small gas zone at 2701.5 m to 2705 m in the Tubåen Formation. Chromatographic analysis showed a significantly drier gas here than in the main reservoir. Triassic, Rhaetian age sandstone was encountered from 2737 m to TD. Basement was not seen. Seven cores were cut in from 2463 m in the Fuglen Formation to 2597.5 m in the Nordmela Formation. The recovery was 134.3 m. Segregated RFT samples were taken at 2485.5 m (gas/mud filtrate and water/trace condensate), 2516 m (gas/mud filtrate/water), 2526 m (mud filtrate/water/trace gas), and at 2701.7 m (gas with small amount of mud filtrate and water).

The well was permanently abandoned as a gas and condensate discovery on 14 April 1985

Testing

One drill stem test was performed. The interval 2484 m to 2493 m was perforated and production tested. During the main flow period the test flowed 866900 Sm³ gas and 77.5 Sm³ condensate pr day through a 24.5 mm choke. This gives a GOR of 11186 Sm³/Sm³. Condensate density was 0.769 g/cm³. The CO₂ and H₂S contents in the gas were measured to 3.0 % and 1.7 ppm, respectively.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
420.00	2799.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2463.0	2481.2	[m]
2	2481.0	2499.0	[m]
3	2499.0	2527.0	[m]
4	2527.0	2548.6	[m]
5	2549.0	2555.5	[m]
6	2555.5	2583.5	[m]
7	2583.5	2597.5	[m]

Total kjerneprøve lengde [m]	134.3
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2463-2469m



2469-2475m



2475-2481m



2481-2481m



2481-2487m



2487-2493m



2493-2499m



2499-2505m



2504-2511m



2511-2517m



2517-2523m



2523-2527m



2527-2533m



2533-2539m



2539-2545m





2545-2548m 2549-2555m 2555-2555m 2555-2561m 2561-2567m



2567-2573m



2573-2579m



2579-2583m



2583-2589m



2589-2595m



2595-2597m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
500.0	[m]	DC	GERH.
510.0	[m]	DC	GERH.
520.0	[m]	DC	GERH.
530.0	[m]	DC	GERH.
540.0	[m]	DC	GERH.
550.0	[m]	DC	GERH.
560.0	[m]	DC	GERH.
570.0	[m]	DC	GERH.
580.0	[m]	DC	GERH.
600.0	[m]	DC	GERH.
610.0	[m]	DC	GERH.
620.0	[m]	DC	GERH.
630.0	[m]	DC	GERH.
640.0	[m]	DC	GERH.
650.0	[m]	DC	GERH.
660.0	[m]	DC	GERH.
670.0	[m]	DC	GERH.
680.0	[m]	DC	GERH.
690.0	[m]	DC	GERH.
700.0	[m]	DC	GERH.
710.0	[m]	DC	GERH.



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 12:05

730.0	[m]	DC	GERH.
740.0	[m]	DC	GERH.
750.0	[m]	DC	GERH.
760.0	[m]	DC	GERH.
770.0	[m]	DC	GERH.
780.0	[m]	DC	GERH.
790.0	[m]	DC	GERH.
800.0	[m]	DC	GERH.
810.0	[m]	DC	GERH.
820.0	[m]	DC	GERH.
830.0	[m]	DC	GERH.
840.0	[m]	DC	GERH.
850.0	[m]	DC	GERH.
860.0	[m]	DC	GERH.
870.0	[m]	DC	GERH.
880.0	[m]	DC	GERH.
890.0	[m]	DC	GERH.
900.0	[m]	DC	GERH.
918.0	[m]	DC	GERH.
921.7	[m]	SWC	GERH.
933.0	[m]	DC	GERH.
948.0	[m]	DC	GERH.
960.0	[m]	DC	GERH.
969.0	[m]	DC	GERH.
981.0	[m]	DC	GERH.
993.0	[m]	DC	GERH.
997.0	[m]	SWC	GERH.
1005.0	[m]	DC	GERH.
1017.0	[m]	DC	GERH.
1029.0	[m]	DC	GERH.
1041.0	[m]	DC	GERH.
1053.0	[m]	DC	GERH.
1058.0	[m]	SWC	GERH.
1065.0	[m]	DC	GERH.
1077.0	[m]	DC	GERH.
1089.0	[m]	DC	GERH.
1101.0	[m]	DC	GERH.
1118.0	[m]	DC	GERH.
1119.0	[m]	SWC	GERH.
1125.0	[m]	DC	GERH.



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 12:05

1137.0	[m]	DC	GERH.
1152.0	[m]	DC	GERH.
1167.0	[m]	DC	GERH.
1182.0	[m]	DC	GERH.
1183.0	[m]	SWC	GERH.
1197.0	[m]	DC	GERH.
1212.0	[m]	DC	GERH.
1220.0	[m]	SWC	GERH.
1227.0	[m]	DC	GERH.
1242.0	[m]	DC	GERH.
1257.0	[m]	DC	GERH.
1272.0	[m]	DC	GERH.
1282.0	[m]	SWC	GERH.
1287.0	[m]	DC	GERH.
1302.0	[m]	DC	GERH.
1314.0	[m]	DC	GERH.
1329.0	[m]	DC	GERH.
1344.0	[m]	DC	GERH.
1345.0	[m]	SWC	GERH.
1373.0	[m]	SWC	GERH.
1374.0	[m]	DC	GERH.
1389.0	[m]	DC	GERH.
1404.0	[m]	DC	GERH.
1420.0	[m]	DC	GERH.
1435.0	[m]	DC	GERH.
1450.0	[m]	DC	GERH.
1465.0	[m]	DC	GERH.
1480.0	[m]	DC	GERH.
1494.0	[m]	DC	GERH.
1509.0	[m]	DC	GERH.
1510.0	[m]	SWC	GERH.
1524.0	[m]	DC	GERH.
1539.0	[m]	DC	GERH.
1554.0	[m]	DC	GERH.
1554.0	[m]	SWC	GERH.
1569.0	[m]	DC	GERH.
1584.0	[m]	DC	GERH.
1599.0	[m]	DC	GERH.
1600.0	[m]	SWC	GERH.
1614.0	[m]	DC	GERH.



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 12:05

1629.0	[m]	DC	GERH.
1644.0	[m]	DC	GERH.
1659.0	[m]	DC	GERH.
1660.0	[m]	SWC	GERH.
1674.0	[m]	DC	GERH.
1696.7	[m]	DC	GERH.
1704.0	[m]	DC	GERH.
1719.0	[m]	DC	GERH.
1734.0	[m]	DC	GERH.
1749.0	[m]	DC	GERH.
1749.0	[m]	SWC	GERH.
1761.0	[m]	DC	GERH.
1764.0	[m]	DC	GERH.
1773.0	[m]	DC	GERH.
1779.0	[m]	DC	GERH.
1794.0	[m]	DC	GERH.
1794.4	[m]	SWC	GERH.
1809.0	[m]	DC	GERH.
1824.0	[m]	DC	GERH.
1829.4	[m]	DC	GERH.
1839.0	[m]	DC	GERH.
1854.0	[m]	DC	GERH.
1869.0	[m]	DC	GERH.
1874.4	[m]	SWC	GERH.
1879.4	[m]	SWC	GERH.
1883.9	[m]	SWC	GERH.
1899.0	[m]	DC	GERH.
1914.0	[m]	DC	GERH.
1929.0	[m]	DC	GERH.
1944.0	[m]	DC	GERH.
1951.4	[m]	SWC	GERH.
1959.0	[m]	DC	GERH.
1974.0	[m]	DC	GERH.
1989.0	[m]	DC	GERH.
2004.0	[m]	DC	GERH.
2019.0	[m]	DC	GERH.
2034.0	[m]	DC	GERH.
2049.0	[m]	DC	GERH.
2064.0	[m]	DC	GERH.
2079.0	[m]	DC	GERH.



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 12:05

2094.0	[m]	DC	GERH.
2109.0	[m]	DC	GERH.
2124.0	[m]	DC	GERH.
2134.4	[m]	SWC	GERH.
2139.0	[m]	DC	GERH.
2154.0	[m]	DC	GERH.
2169.4	[m]	SWC	GERH.
2184.0	[m]	DC	GERH.
2199.0	[m]	DC	GERH.
2228.4	[m]	SWC	GERH.
2274.0	[m]	DC	GERH.
2289.0	[m]	DC	GERH.
2319.0	[m]	DC	GERH.
2332.4	[m]	SWC	GERH.
2349.0	[m]	DC	GERH.
2364.0	[m]	DC	GERH.
2374.4	[m]	SWC	GERH.
2379.0	[m]	DC	GERH.
2394.0	[m]	DC	GERH.
2409.0	[m]	DC	GERH.
2413.1	[m]	SWC	GERH.
2424.0	[m]	DC	GERH.
2439.0	[m]	DC	GERH.
2445.0	[m]	DC	GERH.
2452.4	[m]	SWC	GERH.
2460.0	[m]	DC	GERH.
2463.0	[m]	C	GERH.
2471.1	[m]	C	GERH.
2477.3	[m]	C	GERH.
2481.0	[m]	C	GERH.
2481.0	[m]	C	GERH.
2488.9	[m]	C	GERH.
2504.2	[m]	C	GERH.
2505.0	[m]	DC	GERH.
2512.0	[m]	C	GERH.
2523.7	[m]	C	GERH.
2535.0	[m]	DC	GERH.
2543.0	[m]	C	GERH.
2550.0	[m]	DC	GERH.
2560.4	[m]	C	GERH.



2565.0	[m]	DC	GERH.
2567.1	[m]	C	GERH.
2576.8	[m]	C	GERH.
2584.6	[m]	C	GERH.
2591.1	[m]	C	GERH.
2594.5	[m]	C	GERH.
2601.0	[m]	DC	GERH.
2607.3	[m]	SWC	GERH.
2625.0	[m]	DC	GERH.
2634.0	[m]	DC	GERH.
2643.0	[m]	DC	GERH.
2668.5	[m]	SWC	GERH.
2685.0	[m]	DC	GERH.
2714.0	[m]	SWC	GERH.
2744.0	[m]	SWC	GERH.
2775.0	[m]	DC	GERH.
2790.0	[m]	DC	GERH.
2792.0	[m]	SWC	GERH.
2800.0	[m]	DC	GEAR

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
339	NORDLAND GP
420	SOTBAKKEN GP
420	TORSK FM
1068	NYGRUNNEN GP
1068	KVEITE FM
1112	ADVENTDALEN GP
1112	KOLMULE FM
1885	KOLJE FM
2226	KNURR FM
2338	HEKKINGEN FM
2450	FUGLEN FM
2480	KAPP TOSCANA GP
2480	STØ FM
2557	NORDMELA FM
2642	TUBÅEN FM
2737	FRUHOLMEN FM



Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
461	pdf	0.42

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
461_1	pdf	3.68

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
461_01_WDSS_General_Information	pdf	0.29
461_02_WDSS_completion_log	pdf	0.21

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
461_7121_4_2_COMPLETION_REPORT_AND_LOG	pdf	39.83

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	2484	2493	16.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				65





Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygnde rel. luft	GOR [m3/m3]
1.0	20	527000	0.769	0.647	27300

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	337	1760
CBL VDL GR	1500	2455
CBL VDL GR	2268	2748
CST	921	1761
CST	1794	2452
CST	2673	2799
DLL GR SP	2457	2668
ISF BHC GR	899	2457
ISF BHC MSFL GR	339	916
ISF BHC MSFL GR	2457	2801
LDL CNL NGT	2457	2802
LDL GR	414	2458
RFT GR	2480	2664
RFT GR	2673	2781
SHDT GR	899	2803
VELOCITY	600	2760

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	414.0	36	417.0	0.00	LOT
SURF.COND.	20	900.0	26	918.0	1.39	LOT
INTERM.	13 3/8	1759.0	17 1/2	1774.0	1.49	LOT
INTERM.	9 5/8	2455.0	12 1/4	2460.0	1.86	LOT
LINER	7	2797.0	8 1/2	2800.0	0.00	LOT

Boreslam



Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
918	1.17	1000.0		WATER BASED	
1140	1.12	1100.0		WATER BASED	
1261	1.14	1300.0		WATER BASED	
1458	1.16	800.0		WATER BASED	
1692	1.16	800.0		WATER BASED	
1769	1.12	1100.0		WATER BASED	
1774	1.16	900.0		WATER BASED	
2009	1.12	1500.0		WATER BASED	
2278	1.20	1300.0		WATER BASED	
2460	1.37	1500.0		WATER BASED	
2587	1.23	1200.0		WATER BASED	
2629	1.23	1100.0		WATER BASED	
2677	1.23	1100.0		WATER BASED	
2725	1.23	1600.0		WATER BASED	
2800	1.23	1400.0		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]
461 Formation pressure (Formasjonstrykk)	pdf	0.28

