



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 04:16

Brønnbane navn	7120/10-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Brønn navn	7120/10-2
Seismisk lokalisering	E 841 - 09 SP. 295
Utvinningstillatelse	098
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	643-L
Boreinnretning	BYFORD DOLPHIN
Boredager	48
Borestart	20.07.1990
Boreslutt	05.09.1990
Frigitt dato	05.09.1992
Publiseringsdato	11.02.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	186.0
Totalt målt dybde (MD) [m RKB]	2500.0
Totalt vertikalt dybde (TVD) [m RKB]	2497.0
Maks inklinasjon [°]	7.5
Temperatur ved bunn av brønnbanen [°C]	63
Eldste penetrerte alder	LATE JURASSIC
Eldste penetrerte formasjon	HEKKINGEN FM
Geodetisk datum	ED50
NS grader	71° 5' 34.8" N
ØV grader	20° 14' 28.31" E
NS UTM [m]	7888153.58
ØV UTM [m]	472556.90
UTM sone	34
NPDID for brønnbanen	1561

**Brønnhistorie****General**

Block 7120/10 is situated on the southwest margin of the Hammerfest Basin with the Tromsø Basin to the west, and the Troms-Finnmark Platform to the south. Well 7120/10-2 was designed to drill Valanginian submarine fan sandstones, where the hydrocarbon trap is formed by up dip sand pinch out to the south and west combined with structural dip to the northeast. The reservoir was prognosed to be penetrated at 2080 m sub sea. The source kitchen for the prospect was expected to be the Hekkingen Formation of Late Jurassic, which is good to rich source rocks and contains oil prone kerogen. Surface to 214 m subsea could contain boulders and thus cause drilling problems.

Operations and results

Wildcat well 7120/10-2 was spudded with the semi-submersible installation Byford Dolphin on 20 July 1990 and drilled to TD at 2500 m in the Late Jurassic Hekkingen Formation. Three incidents delayed the drilling for a total of 13.5 days: 1) A boulder bed in the 36" section made it necessary to make a trip to change the BHA. The old hole could not be located on this wiper trip so the string was pulled to re-spud; 2) A wellhead connector leak needed to be diagnosed and repaired; 3) Logs hung up at ledges formed when the shale/ claystone was washed out while resistant limestone were not. As a consequence of the latter no wire line logs were obtained over the interval 2106 m to 1935 m. This interval comprises predominantly shale but does include two sandstone beds (2052 m to 2059 m and 2036 m to 2038 m). The well was drilled with seawater down to 523 m and with lignosulphonate/seawater/gel from 523 m to TD.

The well penetrated the primary objective, Valanginian sandstones, at 2125 m within the Knurr Formation. These reservoir quality rocks comprised of sandstones with minor interbedded siltstones and shales for a thickness of 178 m down to the contact with the Late Jurassic Hekkingen Shale at 2303 m. These reservoir sands all proved water wet. The well penetrated 197 m of Late Jurassic source rock of variable richness. No truly "hot" shale was penetrated, although the Hekkingen Formation did contain organic rich material and showed a significant gas increase with moderately bright cut and crush cut fluorescence throughout. One core was cut in the interval from 2127 to 2136 m. The core was cut close to the top of the sand-prone section. No fluid sample was taken.

The well was permanently abandoned as a dry hole on 5 September 1990.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
540.00	2500.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2127.0	2135.6	[m]

Total kjerneprøve lengde [m]	8.6
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2127-2132m



2127-2132m



2132-2136m



2132-2135m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
551.0	[m]	SWC	
560.0	[m]	DC	
584.0	[m]	SWC	
630.0	[m]	DC	
647.0	[m]	SWC	ESSO
670.0	[m]	DC	
698.0	[m]	SWC	
708.0	[m]	SWC	ESSO
728.0	[m]	SWC	ESSO
754.0	[m]	SWC	ESSO
758.0	[m]	SWC	ESSO
797.0	[m]	SWC	ESSO
824.0	[m]	SWC	ESSO
854.0	[m]	SWC	ESSO
864.0	[m]	SWC	ESSO
891.0	[m]	SWC	ESSO
918.0	[m]	SWC	ESSO
941.0	[m]	SWC	ESSO



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970.0 [m]	DC	
1000.0 [m]	SWC	ESSO
1020.0 [m]	DC	
1047.0 [m]	SWC	ESSO
1088.0 [m]	SWC	ESSO
1126.0 [m]	SWC	ESSO
1175.0 [m]	SWC	ESSO
1191.0 [m]	SWC	ESSO
1217.0 [m]	SWC	ESSO
1240.0 [m]	DC	
1268.0 [m]	SWC	ESSO
1286.0 [m]	SWC	ESSO
1320.0 [m]	DC	
1340.0 [m]	DC	
1365.0 [m]	DC	
1390.0 [m]	DC	
1415.0 [m]	DC	
1440.0 [m]	DC	
1465.0 [m]	DC	
1490.0 [m]	DC	
1515.0 [m]	DC	
1540.0 [m]	DC	
1565.0 [m]	DC	
1590.0 [m]	DC	
1615.0 [m]	DC	
1640.0 [m]	DC	
1665.0 [m]	DC	
1690.0 [m]	DC	
1715.0 [m]	DC	
1740.0 [m]	DC	
1748.0 [m]	DC	
1765.0 [m]	DC	
1790.0 [m]	DC	
1815.0 [m]	DC	
1840.0 [m]	DC	
1865.0 [m]	DC	
1865.0 [m]	DC	
1890.0 [m]	DC	
1915.0 [m]	DC	
1940.0 [m]	DC	



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1965.0	[m]	DC	
1990.0	[m]	DC	
2015.0	[m]	DC	
2040.0	[m]	DC	
2045.0	[m]	DC	
2065.0	[m]	DC	
2090.0	[m]	DC	
2100.0	[m]	DC	
2115.0	[m]	DC	
2120.0	[m]	DC	
2128.5	[m]	C	ESSO
2130.6	[m]	C	ESSO
2132.1	[m]	C	ESSO
2134.0	[m]	C	ESSO
2135.0	[m]	C	ESSO
2135.4	[m]	C	ESSO
2140.0	[m]	DC	
2165.0	[m]	DC	
2190.0	[m]	DC	
2205.0	[m]	DC	
2215.0	[m]	DC	
2240.0	[m]	DC	
2265.0	[m]	DC	
2290.0	[m]	DC	
2290.0	[m]	DC	
2310.0	[m]	DC	
2315.0	[m]	DC	
2320.0	[m]	DC	
2340.0	[m]	DC	
2365.0	[m]	DC	
2375.0	[m]	DC	
2395.0	[m]	DC	
2415.0	[m]	DC	
2420.0	[m]	DC	
2425.0	[m]	DC	
2430.0	[m]	DC	
2450.0	[m]	DC	
2475.0	[m]	DC	
2500.0	[m]	DC	



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
211	NORDLAND GP
468	SOTBAKKEN GP
468	TORSK FM
647	NYGRUNNEN GP
647	KVITING FM
703	ADVENTDALEN GP
703	KOLMULE FM
1442	KOLJE FM
1922	KNURR FM
2303	HEKKINGEN FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1561	pdf	0.34

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1561_01_WDSS_General_Information	pdf	0.19
1561_02_WDSS_completion_log	pdf	0.16

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1561_7120_10_2_COMPLETION_LOG	pdf	1.25
1561_7120_10_2_COMPLETION_REPORT	pdf	41.58

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	685	1321
DIL GR CAL SP FGT CNL	2106	2493
DIL GR LSS SP CAL	521	1313
DIL GR LSS SP CAL	1312	1878
DIL GR LSS SP CAL	1837	1935
LDL CNL GR CAL	1312	1878
LDL CNL GR CAL	1837	1935
MWD	249	2500
SWC	551	1286
VELOCITY	375	1930

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	248.0	36	250.0	0.00	LOT
INTERM.	13 3/8	523.0	17 1/2	533.0	1.86	LOT
INTERM.	9 5/8	1311.0	12 1/4	1321.0	1.85	LOT
OPEN HOLE		2500.0	8 1/2	2500.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
224	1.03	1.0		WATER BASED	23.07.1990
249	1.03	1.0		WATER BASED	25.07.1990
249	1.03	1.0		WATER BASED	23.07.1990
249	1.03	1.0		WATER BASED	24.07.1990
249	1.00			WATER BASED	23.07.1990
536	1.03	1.0		WATER BASED	26.07.1990
536	1.07	13.0	3.4	WATER BASED	30.07.1990
536	1.03			WATER BASED	30.07.1990
536	1.07	7.0	5.3	WATER BASED	30.07.1990
685	1.08	5.0	5.7	WATER BASED	31.07.1990
1014	1.13	8.0	6.7	WATER BASED	01.08.1990
1190	1.25	15.0	0.5	WATER BASED	03.09.1990
1300	1.25	15.0	1.9	WATER BASED	03.09.1990



1321	1.15	7.0	8.1	WATER BASED	03.08.1990
1321	1.21	12.0	6.7	WATER BASED	09.08.1990
1321	1.21	12.0	6.7	WATER BASED	13.08.1990
1321	1.21	12.0	6.7	WATER BASED	14.08.1990
1321	1.15	7.0	8.1	WATER BASED	02.08.1990
1321	1.15	10.0	9.1	WATER BASED	06.08.1990
1321	1.16	7.0	8.1	WATER BASED	06.08.1990
1321	1.16	9.0	7.7	WATER BASED	06.08.1990
1321	1.21	12.0	6.7	WATER BASED	10.08.1990
1321	1.21	12.0	6.7	WATER BASED	13.08.1990
1454	1.17	10.0	7.7	WATER BASED	15.08.1990
1670	1.18	11.0	9.6	WATER BASED	15.08.1990
1865	1.16	10.0	7.7	WATER BASED	16.08.1990
1886	1.18	10.0	6.7	WATER BASED	17.08.1990
2076	1.23	14.0	7.7	WATER BASED	21.08.1990
2086	1.23	12.0	8.6	WATER BASED	21.08.1990
2127	1.23	12.0	7.7	WATER BASED	21.08.1990
2136	1.23	11.0	7.2	WATER BASED	21.08.1990
2195	1.23	15.0	7.2	WATER BASED	22.08.1990
2500	1.20	12.0	7.2	WATER BASED	27.08.1990
2500	1.26	17.0	8.1	WATER BASED	27.08.1990
2500	1.26	15.0	6.7	WATER BASED	27.08.1990
2500	1.26	13.0	6.7	WATER BASED	28.08.1990
2500	1.26	15.0	6.7	WATER BASED	29.08.1990
2500	1.26	11.0	5.3	WATER BASED	30.08.1990
2500	1.27	12.0	4.8	WATER BASED	31.08.1990
2500	1.26	14.0	4.8	WATER BASED	03.09.1990

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
2127.55	[m]
2129.50	[m]
2134.92	[m]