



Generell informasjon

Brønnbane navn	7121/7-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Felt	SNØHVIT
Funn	7121/7-2 (Albatross Sør)
Brønn navn	7121/7-2
Seismisk lokalisering	ST 8412 - 320 SP. 520
Utvinningstillatelse	100
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	520-L
Boreinnretning	ROSS ISLE
Boredager	37
Borestart	07.07.1986
Boreslutt	12.08.1986
Frigitt dato	12.08.1988
Publiseringsdato	11.02.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	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]	325.0
Totalt målt dybde (MD) [m RKB]	2156.0
Totalt vertikalt dybde (TVD) [m RKB]	2155.0
Maks inklinasjon [°]	2.8
Temperatur ved bunn av brønnbanen [°C]	74
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	FRUHOLMEN FM
Geodetisk datum	ED50
NS grader	71° 26' 37.91" N



ØV grader	21° 3' 21.42" E
NS UTM [m]	7927117.40
ØV UTM [m]	501987.36
UTM sone	34
NPDID for brønnbanen	881

Brønnhistorie

General

Well 7121/7-2 was drilled on the Beta structure on Tromsøflaket, 3.4 km south of well 7121/7-1. It was designed to test the hydrocarbon potential in Middle to Lower Jurassic sandstones. Planned total depth was in rocks of Triassic age.

Operations and results

Wildcat well 7121/7-2 was spudded with the semi-submersible installation Ross Isle on 7 July 1986 and drilled to TD at 2156 m in the Late Triassic Fruholmen Formation. At 871 m in the 17 1/2" section the string parted and 9.5 hours was spent fishing to retrieve the lost equipment. At 1698 m, TD in the 17 1/2" section a H₂S alarm occurred with 28 ppm H₂S in the mud gas. The problem was cured by placing spud mud with a concentration of 15 kg/m³ of ZnCO₃ behind 13-3/8" casing to prevent H₂S growing in mud. The well was drilled with spud mud down to 667 m and with polymer/"Shale-Trol" mud from 667 m to TD. The well acted as a pilot well for testing this mud on Tromsøflaket. The main reason for using this mud system was that it was expected to stable the hole through sections that from previous experience had proven to cause tight-hole problems. The mud performed better than the ordinary gypsum/polymer mud previously used in the area, but total costs were higher and it was thus not considered a success.

Hydrocarbon bearing Middle Jurassic sandstones (Stø Formation) were encountered at 1881.5 m. The gas/water contact in this well was recognized at 1914.4 m, ca 12 m deeper than in the 7120/9-1 Albatross Discovery. The gas zone, 1881.5 m to 1914.4 m, consists of an interbedded silt, shale and very fine sandstone sequence with good reservoir properties. Two cores were cut in the Stø Formation over the interval 1903 m to 1939 m, (1889 m to 1935 m, loggers depth). Three FMT samples were collected, one at 1884.5 m and two at 1899 m.

The well was permanently abandoned as a gas discovery on 12 August 1986.

Testing

The interval 1881.8 m to 1889.9 m was perforated and production tested. The test produced on average 527000 Sm³ gas and 28 Sm³ condensate pr day through a 15.8 mm choke during the main flow. This gives a GOR of ca 18800 Sm³/Sm³. The CO₂ content was 8 %. No H₂S was detected.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
430.00	2160.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1903.0	1927.2	[m]
2	1928.5	1939.5	[m]

Total kjerneprøve lengde [m]	35.2
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1903-1908m



1908-1913m



1913-1918m



1918-1923m



1923-1927m



1928-1933m



1933-1938m



1938-1939m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
909.0	[m]	SWC	GEAR
925.0	[m]	SWC	GEAR
926.5	[m]	SWC	GEAR
1007.0	[m]	SWC	GEAR
1034.0	[m]	SWC	GEAR
1091.0	[m]	SWC	GEAR
1149.2	[m]	SWC	GEAR
1176.0	[m]	SWC	GEAR
1291.0	[m]	SWC	GEAR



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 2.6.2024 - 01:30

1349.5	[m]	SWC	GEAR
1379.5	[m]	SWC	GEAR
1405.0	[m]	SWC	GEAR
1433.0	[m]	SWC	GEAR
1461.0	[m]	SWC	GEAR
1519.0	[m]	SWC	GEAR
1550.0	[m]	SWC	GEAR
1556.0	[m]	SWC	GEAR
1615.9	[m]	SWC	GEAR
1722.5	[m]	SWC	GEAR
1729.0	[m]	SWC	GEAR
1732.0	[m]	SWC	GEAR
1807.0	[m]	SWC	GEAR
1812.0	[m]	SWC	GEAR
1817.0	[m]	SWC	GEAR
1824.0	[m]	SWC	GEAR
1831.0	[m]	SWC	GEAR
1841.0	[m]	SWC	GEAR
1848.0	[m]	SWC	GEAR
1858.0	[m]	SWC	GEAR
1862.0	[m]	SWC	GEAR
1868.0	[m]	SWC	GEAR
1877.0	[m]	SWC	GEAR
1895.8	[m]	SWC	GEAR
1911.0	[m]	SWC	GEAR
1914.2	[m]	SWC	GEAR
1915.6	[m]	SWC	GEAR
1918.8	[m]	SWC	GEAR
1921.5	[m]	SWC	GEAR
1924.6	[m]	SWC	GEAR
1929.3	[m]	SWC	GEAR
1932.7	[m]	SWC	GEAR
1934.4	[m]	SWC	GEAR
1991.0	[m]	SWC	GEAR
1999.0	[m]	SWC	GEAR
2048.0	[m]	SWC	GEAR
2062.0	[m]	SWC	GEAR
2087.0	[m]	SWC	GEAR
2110.5	[m]	SWC	GEAR
2114.0	[m]	SWC	GEAR



2119.0	[m]	SWC	GEAR
2124.0	[m]	SWC	GEAR
2143.0	[m]	SWC	GEAR
2149.0	[m]	SWC	GEAR

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST1	2180.00	2153.00		07.08.1986 - 00:00	YES
FMT		0.00	1899.00		01.08.1986 - 00:00	YES
MDT		0.00	0.00			YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
347	NORDLAND GP
430	SOTBAKKEN GP
430	TORSK FM
889	NYGRUNNEN GP
889	KVEITE FM
923	ADVENTDALEN GP
923	KOLMULE FM
1578	KOLJE FM
1728	KNURR FM
1806	HEKKINGEN FM
1880	FUGLEN FM
1882	KAPP TOSCANA GP
1882	STØ FM
1938	NORDMELA FM
2028	TUBÅEN FM
2073	FRUHOLMEN FM

Spleisede logger





Dokument navn	Dokument format	Dokument størrelse [KB]
881	pdf	0.18

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
881_1	pdf	0.26

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
881_01 WDSS General Information	pdf	0.24
881_02 WDSS completion log	pdf	0.19

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
881_7121_7_2 COMPLETION REPORT AND LOG	pdf	17.56

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	1882	1899	15.9

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0		14.000		

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	28	527000	0.775	0.780	18800





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
ACBL VDL	345	1677
ACBL VDL	1264	1400
ACBL VDL	1671	1925
CDL DNL GR CAL	1677	2154
COREGUN	875	1615
COREGUN	1712	2150
DIFL BHC AC CDL GR SP CAL	654	1628
DIFL BHC AC GR SP CAL	345	675
DIFL BHC AC GR SP CAL	1600	2155
DLL MLL GR	1870	2004
FMT	1882	2068
FMT	1899	1899
FMT	1899	1899
HR DIP	1677	2154
MWD - GR RES	428	674
RLL - GR RES	1680	2028
VSP	405	2140

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	422.0	36	426.0	0.00	LOT
SURF.COND.	20	654.0	26	675.0	1.74	LOT
INTERM.	13 3/8	1680.0	17 1/2	1698.0	1.53	LOT
INTERM.	9 5/8	2156.0	12 1/4	2156.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
425	1.08			WATER BASED	
678	1.10	1100.0		WATER BASED	
795	1.11	1500.0		WATER BASED	



1296	1.14	21.0		WATER BASED	
1680	1.20	2000.0		WATER BASED	
1850	1.26	1500.0		WATER BASED	
1939	1.25	1800.0		WATER BASED	
2114	1.26	1800.0		WATER BASED	
2156	1.25	1800.0		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]
881 Formation pressure (Formasjonstrykk)	pdf	0.25

