



Generell informasjon

Brønnbane navn	7220/7-4
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7220/7-4 (Isflak)
Brønn navn	7220/7-4
Seismisk lokalisering	3D survey ST13M07. Inline 11629. Xline 8742
Utvinningstillatelse	532
Boreoperatør	Equinor Energy AS
Boretillatelse	1844-L
Boreinnretning	TRANSOCEAN ENABLER
Boredager	36
Borestart	07.02.2021
Boreslutt	14.03.2021
Plugget og forlatt dato	14.03.2021
Frigitt dato	14.03.2023
Publiseringsdato	14.03.2023
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
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	NORDMELA FM
Avstand, boredekk - midlere havflate [m]	32.0
Vanndybde ved midlere havflate [m]	351.0
Totalt målt dybde (MD) [m RKB]	2112.0
Totalt vertikalt dybde (TVD) [m RKB]	2111.0
Maks inklinasjon [°]	3.1
Temperatur ved bunn av brønnbanen [°C]	73



Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	TUBÅEN FM
Geodetisk datum	ED50
NS grader	72° 25' 4.29" N
ØV grader	20° 8' 25.78" E
NS UTM [m]	8043171.73
ØV UTM [m]	673135.06
UTM sone	33
NPDID for brønnbanen	9220

Brønnhistorie

General

Well 7220/7-4 was drilled to test the Isflak prospect in the Bjørnøyrenna Fault Complex approximately 8 kilometres from the Johan Castberg FPSO location in the Barents Sea. The primary objective was to test the Stø and Nordmela formations of Middle to Early Jurassic age.

Operations and results

A 9 7/8" pilot hole was drilled on the well location, from 436 to 950 m to investigate the presence of possible shallow

gas, to reduce the uncertainties, and to gather data to continue drilling the well. No shallow gas or shallow water flow was observed at the well location.

Wildcat well 7220/7-4 was spudded with the semi-submersible installation Transocean Enabler on 7 February 2021 and drilled to TD at 2112 m in the Late Triassic, Tubåen Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1272 m, with KCl/Polymer/GEM from 1272 to 1710, and with BaraHib ECO water-based mud from 1710 m to TD.

Top of the target Stø-Nordmela reservoir was encountered at 1820.3 m. The reservoir was oil-bearing in good quality sandstone with a clear oil-water contact at 1930 m in the Nordmela Formation. Oil shows with stain, visible fluorescence and visible cut with fluorescence was described down to 1985 m. The Tubåen Formation had good reservoir quality sandstone, but was water bearing, as expected.

Three cores were cut in succession in the Stø and Nordmela formations, from 1830 to 1985.9 m. The recovery was 100 %. MDT fluid samples were taken in the Stø and Nordmela formations at 1821 m (oil), 1830.7 m (oil), 1863.4 m (oil), 1923.9 m and 1943 m (water).

The well was permanently abandoned on 14 March as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
440.00	2112.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1830.0	1877.7	[m]
2	1877.7	1959.1	[m]
3	1959.1	1985.9	[m]

Total kjerneprøve lengde [m]	155.9
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
383	NORDLAND GP
383	NAUST FM
468	SOTBAKKEN GP
468	TORSK FM
1219	ADVENTDALEN GP
1219	KOLMULE FM
1578	KOLJE FM
1707	KNURR FM
1762	FUGLEN FM
1820	KAPP TOSCANA GP
1820	STØ FM
1890	NORDMELA FM
2061	TUBÅEN FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR MDT	1720	2107
IBC CBL	1200	1706



MSIP FMI	1200	2112
MWD LWD - DGR EWR PWD DIR WDP	436	2112
MWD LWD - DWD	382	436
PEX HRLA XPT	1618	2111
VSP	401	2112
XLR	1712	2090
XLR	1829	1829

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	433.9	36	436.0	0.00	
INTERM.	13 3/8	1263.8	17 1/2	1272.0	1.35	FIT
INTERM.	9 5/8	1708.0	12 1/4	1710.0	1.50	FIT
OPEN HOLE		2112.0	8 1/2	2112.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
383	1.30	15.0	11.0	KCl/Polymer/GEM	
600	1.21	12.0	10.5	KCl/Polymer/GEM	
1133	1.30	19.0	9.0	Brine/Polymer mud	
1272	1.21	14.0	9.5	KCl/Polymer/GEM	
1293	1.13	13.0	9.5	BaraHib ECO	
1350	1.24	17.0	9.0	BaraHib ECO	
1435	1.13	14.0	10.5	BaraHib ECO	
1607	1.24	17.0	8.5	BaraHib ECO	
1702	1.14	16.0	14.0	BaraHib ECO	
1710	1.20	16.0	11.0	BaraHib ECO	
1912	1.24	17.0	9.0	BaraHib ECO	
1912	1.22	15.0	10.5	BaraHib ECO	
1958	1.22	20.0	10.0	BaraHib ECO	
1985	1.20	14.0	7.5	BaraHib ECO	
1985	1.22	19.0	11.0	BaraHib ECO	
1985	1.21	20.0	10.5	BaraHib ECO	
2028	1.20	18.0	13.5	BaraHib ECO	



2112	1.20	18.0	13.0	BaraHib ECO	
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