



Generell informasjon





Brønnbane navn	6611/1-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6611/1-1 (Toutatis)
Brønn navn	6611/1-1
Seismisk lokalisering	DEA18300-01022; DEA18300-03033
Utvinningstillatelse	896
Boreoperatør	DEA Norge AS
Boretillatelse	1786-L
Boreinnretning	WEST HERCULES
Boredager	23
Borestart	02.11.2019
Boreslutt	24.11.2019
Plugget og forlatt dato	24.11.2019
Frigitt dato	24.11.2021
Publiseringsdato	22.12.2021
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	357.0
Totalt målt dybde (MD) [m RKB]	1905.0
Totalt vertikalt dybde (TVD) [m RKB]	1905.0
Eldste penetrerte alder	TRIASSIC
Geodetisk datum	ED50
NS grader	66° 47' 39.64" N
ØV grader	11° 1' 11.61" E
NS UTM [m]	7410082.99
ØV UTM [m]	588807.46
UTM sone	32
NPDID for brønnbanen	8887



Brønnhistorie

General

Well 6611/1-1 was drilled to test the Toutatis prospect on the Grønøy High in the Norwegian Sea. The primary objective was to test the hydrocarbon potential in the Tilje and Åre formations.

Operations and results

Operations started on 31 October 2019 with drilling of a 9 7/8" shallow gas pilot hole 6611/1-U-1 from seabed down to 875 m. The pilot hole was drilled 50 m north-north-east of the main well spud location. No shallow gas was observed. Wildcat well 6611/1-1 was spudded with the semi-submersible installation West Hercules on 2 November 2019 and drilled to TD at 1905 m in the Grey Beds/Red Beds of Early Triassic (Griesbachian) age. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 824 m and with Glydril mud from 824 m to TD.

The well penetrated a hiatus from base Springer Formation to top Tilje Formation at 1257.5 m. The Tilje Formation contained a ca 10 m oil column with a free water level at 1270.8 m. Geochemical analyses of the oil proved a biodegraded oil devoid of n-alkanes, but sampling and PVT analyses proved the oil to be mobile with a stock tank density of 0.89 g/cm³ and bubble point viscosity of 4.3 mPa·s. Elevated gas readings and weak oil shows described as "spotty dull gold yellow direct fluorescence, with a poor slow, even dull blueish white cut fluorescence" was observed down to 1295 m. Below this depth some minor gas peaks were observed in the Åre Formation and the Grey Beds/Red Beds.

No conventional core was cut. MDT fluid samples were taken at 1257.9 m (oil), 1263.4 m (oil with trace water), 1267.7 m (water with trace oil), and 1362.3 m (water).

The well was permanently abandoned on 24 November 2019 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
830.00	1905.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
387	NORDLAND GP
387	UNDIFFERENTIATED
478	HORDALAND GP



478	BRYGGE FM
836	ROGALAND GP
836	TARE FM
1044	TANG FM
1196	SHETLAND GP
1196	SPRINGAR FM
1258	BÅT GP
1258	TILJE FM
1387	ÅRE FM
1584	GREY BEDS (INFORMAL)

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI PPC MSIP	1240	1900
HRLA PEX HMGS	1244	1900
MDT LS	1244	1900
MSCT	1258	1874
MWD - GR DI APWD	386	824
MWD - GRAB APWD RES DI SON CAL D	824	1244
MWD - GRAB RES APWD DI CAL DEN N	1244	1905
USIT CBL	0	0
VSP VSI4	386	1895
XPT NMR	1244	1900

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	399.0	36	399.0	0.00	
SURF.COND.	13 3/8	820.0	17 1/2	824.0	1.43	FIT
LINER	9 5/8	1244.0	12 1/4	1245.0	1.49	FIT
OPEN HOLE		1905.0	8 1/2	1905.0	0.00	