



Generell informasjon

Brønnbane navn	7122/7-7 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Felt	GOLIAT
Funn	7122/7-1 Goliat
Brønn navn	7122/7-7
Seismisk lokalisering	EN0901. Inline 3268. Xline 1523
Utvinningstillatelse	229
Boreoperatør	Eni Norge AS
Boretillatelse	1734-L
Boreinnretning	WEST HERCULES
Boredager	29
Borestart	28.11.2018
Boreslutt	26.12.2018
Plugget og forlatt dato	26.12.2018
Frigitt dato	26.12.2020
Publiseringsdato	30.04.2021
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	TUBÅEN FM
2. nivå med hydrokarboner, alder	LATE TRIASSIC
2. nivå med hydrokarboner, formasjon	FRUHOLMEN FM
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	379.0
Totalt målt dybde (MD) [m RKB]	1330.0
Totalt vertikalt dybde (TVD) [m RKB]	1272.0
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SNADD FM



Geodetisk datum	ED50
NS grader	71° 17' 33.53" N
ØV grader	22° 15' 14.46" E
NS UTM [m]	7910715.14
ØV UTM [m]	544890.01
UTM sone	34
NPDID for brønnbanen	8614

Brønnhistorie

General

Well 7122/7-7 S was drilled as an appraisal well on the western segment of the Goliat field on the south-east margin of the Hammerfest Basin in the Barents Sea. The Goliat Field produces hydrocarbons from the Realgrunnen Subgroup, the Snadd Formation, and the Kobbe Formation. Primary objective was to test the hydrocarbon bearing potential of the Tubåen and the Fruholmen formations of the Realgrunnen Subgroup. Secondary objective was the Snadd Formation.

Operations and results

An 8 1/2" pilot hole was drilled from seabed to 489 m due to shallow gas warning. No shallow gas was observed. Appraisal well 7122/7-7 S was spudded with the semi-submersible installation West Hercules on 28 November 2018 and drilled to TD at 1330 m (1272 m TVD) m in the Late Triassic Snadd Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 615 m and with EMS 4600 oil-based mud from 615 m to TD.

The Tubåen Formation was found gas bearing from 1166 to 1172.5 m (1123,5 to 1132 m TVD) with an oil rim down to an ODT at 1177 m (1134 m TVD). The Fruholmen Formation held oil from 1196 m (1151 m TVD) to the OWC at 1224 m (1176 m TVD). The OWC in Fruholmen Formation is clearly defined by pressure points. The Snadd Formation was found water bearing with weak shows. The pressure data show it is likely that Tubåen and Fruholmen are hydraulically separated and that the Goliat West compartment drilled by this well is overpressured compared to the rest of the Goliat field. Shows in the Realgrunnen Subgroup were described as weak yellow direct fluorescence, slow poor streaming and moderate bluish white crush cut. Shows in the Snadd formation were described as patchy weak yellow direct fluorescence, slow poor streaming and poor bluish white crush cut. No shows were described above top Realgrunnen Subgroup.

No cores were cut. MDT fluid samples were taken at 1175.7 m (oil), 1197.5 m (oil) and 1245.5 m (water). PVT analysis of the oil samples gave a GOR in the range 64 to 69 Sm³/Sm³ and stock tank density in the range 0.862 to 0.865 g/cm³.

The well was permanently abandoned on 26 December 2018 as an oil and gas appraisal well.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
620.00	1331.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
410	NORDLAND GP
410	UNDIFFERENTIATED
472	SOTBAKKEN GP
472	TORSK FM
636	NYGRUNNEN GP
636	UNDIFFERENTIATED
664	KVITING FM
676	ADVENTDALEN GP
676	KOLMULE FM
1050	KNURR FM
1109	HEKKINGEN FM
1157	FUGLEN FM
1166	KAPP TOSCANA GP
1166	TUBÅEN FM
1274	FRUHOLMEN FM
1306	SNADD FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - GR DIR	410	465
LWD - GR RES DIR	465	615
LWD - GR RES DIR DEN NEU SON	1135	1330
LWD - GR RES DIR SON	615	1135
MDT	1167	1312
USIT CBL	554	1130

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	36	457.0	42	467.0	0.00	
PILOT HOLE		489.0	8 1/2	489.0	0.00	
INTERM.	13 3/8	609.0	16	615.0	1.54	FIT
INTERM.	9 5/8	1130.0	12 1/2	1135.0	1.60	FIT
OPEN HOLE		1330.0	8 1/2	1330.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
411	1.30	27.0		--	
465	1.03			--	
466	1.30	27.0		GE	
489	1.03	25.0		--	
600	1.28	20.0		OB	
822	1.25	21.0		OB	
1135	1.32	26.0		OB	
1330	1.32	24.0		OB	