



Generell informasjon

Brønnbane navn	7122/7-6
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	7122/7-6
Seismisk lokalisering	inline 3229.xline 1802-3MAZ survey EN0901 Az 127
Utvinningstillatelse	229
Boreoperatør	Eni Norge AS
Boretillatelse	1422-L
Boreinnretning	SCARABEO 8
Boredager	76
Borestart	21.10.2012
Boreslutt	04.01.2013
Frigitt dato	04.01.2015
Publiseringsdato	13.04.2015
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EARLY TRIASSIC
1. nivå med hydrokarboner, formasjon.	FRUHOLMEN FM
2. nivå med hydrokarboner, alder	MIDDLE TRIASSIC
2. nivå med hydrokarboner, formasjon	KOBBE FM
Avstand, boredekk - midlere havflate [m]	34.0
Vanndybde ved midlere havflate [m]	380.0
Totalt målt dybde (MD) [m RKB]	2026.0
Totalt vertikalt dybde (TVD) [m RKB]	2026.0
Maks inklinasjon [°]	0.65
Eldste penetrerte alder	EARLY TRIASSIC



Eldste penetrerte formasjon	KLAPPMYSS FM
Geodetisk datum	ED50
NS grader	71° 16' 11.44" N
ØV grader	22° 19' 20.14" E
NS UTM [m]	7908224.31
ØV UTM [m]	547388.20
UTM sone	34
NPDID for brønnbanen	7051

Brønnhistorie

General

Well 7122/7-6 was drilled as an appraisal well on the Goliat Field in the Barents Sea. The primary objective was to define the Kobbe M0 compartment prior to drilling of the M0 development wells. The well should also reduce the structural uncertainty and give information about the OWC and GOC of the Kobbe Main Compartment. The secondary objectives were to test the hydrocarbon potential of the Realgrunnen Subgroup and the Snadd Formation.

Operations and results

A 9 7/8" pilot hole was spudded 50 m away from the main well location and drilled to 680 m. No shallow gas or water flow was observed and the pilot was plugged back to seabed. Appraisal well 7122/7-6 was spudded with the semi-submersible installation Scarabeo 8 on 21 October 2012 and drilled to TD at 2026 m in the Early Triassic Klappmyss Formation. The well was drilled with seawater and hi-vis pills down to 562 m and with Glydril/KCl mud from 562 m to TD.

Top Fruholmen was penetrated at 1121 m and was oil bearing from top to the OWC at 1162 m. Analysis of the mud gas while drilling ("Gas While Drilling") show high iC4/n/C4 ratio in the Fruholmen oil due to biodegradation. The Snadd Formation was mainly claystone/siltstone with thin interbedded sandstones. It was water bearing without shows. The Kobbe Formation was encountered at 1754 m and had gas down to the GOC at 1792 m and oil down to the OWC at 1846 m. Diminishing oil shows on SWC's were described below the Kobbe OWC down to 1900 m.

Four cores were cut. Cores 1 and 2 were cut from 1126 to 1163 m in the Fruholmen reservoir. Cores 3 and 4 were cut from 1759 to 1766 m in the Kobbe reservoir. Core recovery was between 90 and 100%. MDT-XPT pressure points were acquired in the Fruholmen and Kobbe reservoirs to establish the fluid gradients and contacts. MDT fluid samples were taken in the Fruholmen Formation at 1152 m (oil), 1173 m (water), and in the Kobbe Formation at 1757 m (gas), 1842.5 m (oil), and 1866 m (water).

The well was permanently abandoned on 4 January 2013 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]
570.00	2026.40

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1126.0	1156.0	[m]
2	1156.0	1162.8	[m]
3	1759.0	1760.0	[m]
4	1760.0	1765.3	[m]
5	1803.0	1824.7	[m]

Total kjerneprøve lengde [m]	64.9
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
414	NORDLAND GP
478	SOTBAKKEN GP
478	TORSK FM
624	NYGRUNNEN GP
624	KVITING FM
645	ADVENTDALEN GP
645	KOLMULE FM
980	KNURR FM
1046	HEKKINGEN FM
1110	FUGLEN FM
1122	KAPP TOSCANA GP
1122	FRUHOLMEN FM
1208	SNADD FM
1754	SASSENDALLEN GP
1754	KOBBE FM
1996	KLAPPMYSS FM



Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR XPT GR	1090	1275
CMR XPT GR	1720	2023
FMI SON	1090	1660
FMI SON GR	1651	2027
MDT	1152	1152
MDT	1173	1173
MDT GR	1757	1848
MDT GR	1842	1842
MSCT GR	1993	1748
MWD - GR CAL ECD RES DEN NEU SON	1825	2026
MWD - GR RES ECD	471	562
MWD - GR RES ECD	1660	1803
MWD - GR RES NBGR ECD	1098	1126
MWD - GR RES NBGR ECD DEN SON NE	1126	1651
MWD - GR RES NBGR ECD SON	562	1098
TLD HRLA HNGS	0	0
TLD HRLA HNGS EDTC LEHQT	1090	1275
USIT GR	414	1651
VSP GR	382	2000

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	462.0	42	471.0	0.00	
SURF.COND.	20	550.0	24	562.0	1.35	FIT
PILOT HOLE		681.0		681.0	0.00	
INTERM.	13 3/8	1090.0	16	1098.0	1.40	FIT
LINER	9 5/8	1660.0	12 1/4	1660.0	0.00	
OPEN HOLE		2026.0	8 1/2	2026.0	0.00	

Boreslam



Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
424	1.32			KC	
471	1.03			GE	
601	1.20			KC	
850	1.34			KC	
1098	1.20			KC	
1759	1.24			KC	
2026	1.25			KC	

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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
7051_Formalion_pressure_(Formasjonstrykk)	PDF	0.26

