



## Generell informasjon

Brønnbane navn	7122/7-2
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	<a href="#">lenke til kart</a>
Hovedområde	BARENTS SEA
Felt	<a href="#">GOLIAT</a>
Funn	<a href="#">7122/7-1 Goliat</a>
Brønn navn	7122/7-2
Seismisk lokalisering	NA9801 3D INLINE 680 & X-LINE 2784
Utvinningstillatelse	<a href="#">229</a>
Boreoperatør	Norsk Agip AS
Boretillatelse	1011-L
Boreinnretning	<a href="#">WEST ALPHA</a>
Boredager	38
Borestart	12.09.2001
Boreslutt	19.10.2001
Plugget og forlatt dato	19.10.2001
Frigitt dato	19.10.2003
Publiseringsdato	19.10.2003
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE TRIASSIC
1. nivå med hydrokarboner, formasjon.	TUBÅEN FM
Avstand, boredekk - midlere havflate [m]	18.0
Vanndybde ved midlere havflate [m]	377.0
Totalt målt dybde (MD) [m RKB]	1418.0
Totalt vertikalt dybde (TVD) [m RKB]	1417.0
Maks inklinasjon [°]	3.7
Temperatur ved bunn av brønnbanen [°C]	36
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SNADD FM
Geodetisk datum	ED50



NS grader	71° 17' 28.46" N
ØV grader	22° 16' 57.22" E
NS UTM [m]	7910579.51
ØV UTM [m]	545915.01
UTM sone	34
NPDID for brønnbanen	4391

## Brønnhistorie



## General

The purpose for drilling the well 7122/7-2 was to appraise the potential of the Kapp Toscana Group in the central fault compartment of the Goliat structure, and to see if a deeper oil/water contact could be proved. The main, eastern compartment was proven oil bearing by the exploration well 7122/7-1 drilled in year 2000. The Goliat structure is a faulted structural closure in the crestal part of a major Northeast-Southwest trending rollover anticline situated in the southeastern part of the Hammerfest Basin.

## Operations and results

The 7122/7-2 appraisal well was spudded with the semi-submersible installation West Alpha on 12 September 2001 and drilled to a total depth of 1418 m, 222 m into the Middle to Late Triassic Snadd Formation. A possible gas anomaly prognosed at 450 m proved to be a water bearing sand. Gas was detected at 610 m, but the pressure was low enough to be controlled by the drilling fluid hydrostatic pressure. No further indications of shallow gas were noted during the drilling of the pilot hole. The well was drilled with sea water and high viscous pre-hydrated bentonite mud down to 910 m and with Format brine / XC polymer / PAC mud from 910 m to TD.

The top of Kapp Toscana Group was penetrated at 1078 m (1060 m TVD SS), 9 m above the prognosis. This was also the top of the main reservoir. The reservoir was oil bearing. The MDT pressure points gave an OWC at 1153.8 m (1135 m TVD SS). This is 14 m deeper than in the well 7122/7-1. A pressure difference of 1 bar between the two wells was observed in the oil zone. Good to very good shows were observed in cuttings, and conventional cores from 1078 m to 1153 m. Evidence of water wet sand was seen on core chips from 1155 m. Hydrogen sulphide was recorded as 6 to 25 ppm at approximately 1075 m. In the 12 1/4" hole section down to 1070 m total gas values predominantly ranged from 0.27% to 0.9%. At core point at 1075 m the gas content increased to 2.33%. From 1075 m to the base of coring at 1160 m, gas values ranged between 0.25 to 4.79%. Thereafter the background gasses decreased down to 0.15 near TD. Oil shows were noted above the reservoir from cuttings sample at 1062 m.

Five bottom hole cores were cut from 1075 to 1160 m. Recovery was 82% to 100%. The cores confirmed the heterogeneity of the Kapp Toscana reservoir as observed in well 7122/7-1. For the first time in Norway &Half Moon aluminium" inner tube was used while coring. By this technique it was possible to take images in white and UV light of the full core immediately after the core was recovered. The core images were filed together with the core gamma and only hours after the core was on the drill floor all involved parties had a full description of the core with core gamma and images in white and UV light. A MDT fluid sample was taken at 1078 m in the top of the reservoir to check on the high H<sub>2</sub>S readings at that depth. No H<sub>2</sub>S was detected in the sample. A second MDT sample was taken at 1162 m. The well was permanently abandoned as an oil appraisal on 19 October 2001.

## Testing

One DST was performed in the intervals 1078-1106 and 1127-1136.5 m in the Kapp Toscana Group. The best flow was 685 m<sup>3</sup> oil and 40400 m<sup>3</sup> gas per day from a 48/64" choke. This gives a GOR of 59 m<sup>3</sup>/m<sup>3</sup> and the oil density was 33 deg API. No H<sub>2</sub>S was detected. Neither sand nor water was produced throughout the test.

## Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
918.00	1418.00



**Faktasider**  
**Brønnbane / Leting**

Utskriftstidspunkt: 16.5.2024 - 08:20

Borekaks tilgjengelig for prøvetaking?	YES
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**Borekjerner i Sokkeldirektoratet**

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1075.0	1087.5	[m ]
2	1089.0	1105.4	[m ]
3	1109.0	1122.2	[m ]
4	1123.0	1135.5	[m ]
5	1135.0	1160.8	[m ]

Total kjerneprøve lengde [m]	80.3
Kjerner tilgjengelig for prøvetaking?	YES

**Palynologiske preparater i Sokkeldirektoratet**

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1077.0	[m]	C	ICHRON
1084.0	[m]	C	ICHRON
1114.6	[m]	C	ICHRON
1141.9	[m]	C	ICHRON
1159.8	[m]	C	ICHRON

**Oljeprøver i Sokkeldirektoratet**

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST		0.00	0.00	OIL		YES

**Litostratigrafi**

Topp Dyb [mMD RKB]	Litostrat. enhet
395	<a href="#">NORDLAND GP</a>
448	<a href="#">SOTBAKKEN GP</a>
448	<a href="#">TORSK FM</a>



600	<a href="#">NYGRUNNEN GP</a>
600	<a href="#">KVITING FM</a>
638	<a href="#">ADVENTDALEN GP</a>
638	<a href="#">KOLMULE FM</a>
986	<a href="#">KNURR FM</a>
1021	<a href="#">HEKKINGEN FM</a>
1067	<a href="#">FUGLEN FM</a>
1078	<a href="#">KAPP TOSCANA GP</a>
1078	<a href="#">TUBÅEN FM</a>
1196	<a href="#">FRUHOLMEN FM</a>
1303	<a href="#">SNADD FM</a>

### Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">4391</a>	pdf	0.19

### Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">4391_1</a>	pdf	0.46

### Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">4391_7122_7_2 COMPLETION LOG</a>	.pdf	1.83
<a href="#">4391_7122_7_2 COMPLETION REPORT</a>	.PDF	4.05

### Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1078	1136	19.0





**Faktasider**  
**Brønnbane / Leting**

Utskriftstidspunkt: 16.5.2024 - 08:20

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0		12.600		36

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	685	40415	0.860		59

### Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR APS HNGS	900	1419
FMI DSI	900	1419
HRLA PEX GR	900	1419
MDT	1080	0
MDT	1162	0
MWD CDR-GR DIR RES	910	1075
MWD CDR-GR DIR RES	1075	1418
MWD CDR-GR DIR RES SONIC	395	910
VSP	465	1415

### 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	479.0	30	481.0	0.00	LOT
SURF.COND.	13 3/8	900.0	17 1/2	910.0	1.56	LOT
INTERM.	9 5/8	1418.0	12 1/4	1418.0	0.00	LOT

### Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
425	1.06	19.0		SW/BENTONITE	
481	1.06	7.0		SW/BENTONITE	
910	1.06	16.0		SW/BENTONITE	



935	1.25	8.0		FORMAT	
1075	1.26	11.0		FORMAT	
1123	1.26	13.0		FORMAT	

### Tynnslip i Sokkeldirektoratet

Dybde	Enhet
1077.25	[m ]
1077.50	[m ]
1078.50	[m ]
1089.65	[m ]
1091.25	[m ]
1098.36	[m ]
1100.50	[m ]
1102.75	[m ]
1131.25	[m ]
1136.75	[m ]
1155.25	[m ]
1159.75	[m ]

### 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]
<a href="#">4391 Formation pressure (Formasjonstrykk)</a>	pdf	0.19

