



Generell informasjon

Brønnbane navn	7019/1-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7019/1-1
Brønn navn	7019/1-1
Seismisk lokalisering	94 TRM3D inline 1026 & crossline 1050
Utvinningstillatelse	201
Boreoperatør	Norsk Agip AS
Boretillatelse	984-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	59
Borestart	06.10.2000
Boreslutt	03.12.2000
Frigitt dato	03.12.2002
Publiseringsdato	11.02.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	STØ FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	190.0
Totalt målt dybde (MD) [m RKB]	3003.0
Totalt vertikalt dybde (TVD) [m RKB]	2998.0
Maks inklinasjon [°]	7.9
Temperatur ved bunn av brønnbanen [°C]	108
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	TUBÅEN FM
Geodetisk datum	ED50
NS grader	70° 55' 5.1" N
ØV grader	19° 4' 22.44" E



NS UTM [m]	7869589.80
ØV UTM [m]	429692.26
UTM sone	34
NPDID for brønnbanen	4145

Brønnhistorie

General

Well 7019/1-1 was drilled in the central-western part of block 7019/1. The primary target of the well was to test the hydrocarbon potential of the Middle Jurassic through Upper Triassic Stø Formation sandstone of the Kapp Toscana Group. Lower Basal clastics of the Early Cretaceous Knurr Formation were a secondary target.

Operations and results

Exploration well 7019/1-1 was spudded with the semi-submersible installation "Transocean Arctic" on 6 October 2000. The seabed soil/formation was found to be very hard with embedded boulders and drilling progress was slow. The rig was thus moved 10 m and the well was re-spudded and drilled to TD at 3003 m, 141 m into the Early Jurassic Tubåen Formation. The well was drilled with Seawater and High Viscous sweeps with pre-hydrated bentonite mud down to 665 m, and with Formate brine / XC Polymer / PAC from 665 m to TD. The reservoir of the Stø Formation was encountered at 2447 m and was found to be gas bearing. The Gas/Water contact was encountered at 2597 m. Shows were observed down to 2610 m. Poor shows were also noted through the Nordmela Formation and into the top of the Tubåen Formation to 2865 m. The Basal Clastics of the Knurr Formation were also found HC bearing at 2211 m with poor shows down to 2220 m. No HC/water contact was seen in this reservoir. Three cores were cut, one in the Knurr Formation, and two in the Stø Formation. Gas from the Lower Cretaceous reservoir was sampled with MDT at 2246 m. Gas samples from the Jurassic Stø formation were taken during the DST. The well was permanently abandoned as a gas discovery on 3 December 2000.

Testing

A test was performed in the interval 2526 to 2563 m in the Stø Formation. The well flowed 606000 m3 gas per day (no liquid) from a 40/64 choke. Gas gravity was 1,133 (air = 1), CO2 content 60 - 70%, and H2S content 6 - 13 PPM. The test was stopped during the clean up phase due to the high CO2.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
670.00	3001.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



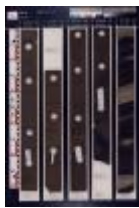
Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2220.0	2234.3	[m]
2	2457.0	2463.8	[m]
3	2561.0	2568.0	[m]

Total kjerneprøve lengde [m]	28.1
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2220-2225m



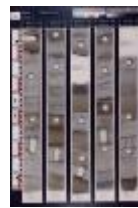
2225-2230m



2457-2462m



2462-2464m



2562-2566m



2566-2568m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
214	NORDLAND GP
448	SOTBAKKEN GP
448	TORSK FM
603	NYGRUNNEN GP
603	KVEITE FM
1215	ADVENTDALEN GP
1215	KOLMULE FM
2127	KNURR FM
2345	HEKKINGEN FM
2377	FUGLEN FM



2447	KAPP TOSCANA GP
2447	STØ FM
2610	NORDMELA FM
2862	TUBÅEN FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4145	pdf	0.39

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4145_1	pdf	1.55

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4145_7019_1_1_COMPLETION_LOG	.pdf	1.80
4145_7019_1_1_COMPLETION_REPORT	.pdf	2.24

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI DSI	2004	3002
HALS PEX	2002	2523
HRLA PEX	2004	3002
MDT	2212	2544
MDT GR	2246	3984
MDT GR	2246	2951
MDT GR	2601	0
MSCT	2496	2548
MSCT	2952	0
MWD MPR - GR DIR RES	2015	2875





MWD MPR - GR DIR RES SONIC	348	665
MWD MPR - GR DIR RES SONIC	670	2015
VSP	2002	3001

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	336.0	36	343.0	0.00	LOT
SURF.COND.	20	658.0	26	665.0	1.65	LOT
INTERM.	9 5/8	2004.0	12 1/4	2015.0	1.73	LOT
LINER	7	3003.0	8 1/2	3003.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
224	1.03			SW/BENTONITE	
600	1.03			SW/BENTONITE	
650	1.03			SW/BENTONITE	
650	1.03			SW/BENTONITE	
720	1.30	10.0		FORMATE/POLYMER	
1807	1.30	11.0		FORMATE	
2015	1.39	13.0		FORMATE	
2095	1.39	13.0		FORMATE	
2221	1.39	11.0		FORMATE	
2237	1.39	12.0		FORMATE	
2295	1.39	13.0		FORMATE	
2335	1.39	13.0		FORMATE	
2381	1.39	13.0		FORMATE	
2410	1.39	13.0		FORMATE	
2434	1.39	11.0		FORMATE	
2459	1.39	14.0		FORMATE	
2465	1.39	13.0		FORMATE	
2512	1.39	13.0		FORMATE	
2530	1.35	12.0		FORMATE	
2550	1.35	13.0		FORMATE	
2557	1.25	9.0		FORMATE	



2569	1.25	10.0		FORMATE	
2633	1.25			FORMATE-POLYMER	
2633	1.25			FORMATE-POLYMER	
2657	1.25	10.0		FORMATE	
2727	1.25	9.0		FORMATE	
2794	1.25	11.0		FORMATE	
2847	1.25	10.0		FORMATE	
2988	1.25	10.0		FORMATE	
3003	1.25			FORMATE POLYMER	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
2221.25	[m]
2227.55	[m]
2228.25	[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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
4145 Formation pressure (Formasjonstrykk)	pdf	0.19

