



Generell informasjon

Brønnbane navn	7120/1-5
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7120/1-3 (Gohta)
Brønn navn	7120/1-5
Seismisk lokalisering	LN12M03. In-line 29784 cross-line 23622
Utvinningstillatelse	492
Boreoperatør	Lundin Norway AS
Boretillatelse	1644-L
Boreinnretning	LEIV EIRIKSSON
Boredager	66
Borestart	02.03.2017
Boreslutt	07.05.2017
Frigitt dato	07.05.2019
Publiseringsdato	07.05.2019
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	344.0
Totalt målt dybde (MD) [m RKB]	2527.0
Totalt vertikalt dybde (TVD) [m RKB]	2527.0
Maks inklinasjon [°]	2
Temperatur ved bunn av brønnbanen [°C]	97
Eldste penetrerte alder	PERMIAN
Eldste penetrerte formasjon	RØYE FM
Geodetisk datum	ED50
NS grader	71° 56' 16" N
ØV grader	20° 14' 58.18" E
NS UTM [m]	7982371.09
ØV UTM [m]	474027.54



UTM sone	34
NPDID for brønnbanen	8070

Brønnhistorie

General

Well 7120/1-5 was drilled as an appraisal well on the Gotha discovery in the southern part of the Loppa High in the Barents Sea. The objectives were to test the distribution and quality of the Permo-Triassic conglomerate, test the quality of the Permian reservoir, to reduce the uncertainty of the time-depth conversion and to provide information relating to additional prospectivity in the southern Loppa High area. Planned TD was 2920 m.

Operations and results

Appraisal well 7120/1-5 was spudded with the semi-submersible installation Leiv Eiriksson on 2 March 2017 and drilled to TD at 2527 m in the Late Permian Røye Formation. After coring in the 8 ½" section the rate of penetration was very slow, and since the well proved only shows and no moveable hydrocarbons at Gotha reservoir level TD was set earlier than planned. The well was drilled with seawater and hi-vis pills down to 662 m and with Performadril water-based mud from 662 m to TD.

A 285 metres gross sequence of Permian age spiculitic carbonates with poor reservoir quality was penetrated from 2241.5 m to TD. The Permo-Triassic conglomerate was absent. No pressure gradients could be established due to poor reservoir quality and/or wellbore damage resulting in seal failure. Minor oil shows were observed in siltstones and sandstones of the upper Snadd Formation in the interval from 885 to 955 m. These were typically described as having no odour, no stain, weak yellow direct fluorescence, slow diffuse weak bluish white cut fluorescence, weak cream fluorescent residue, no visible residue. The Røye Formation spiculitic carbonates had intermittent oil shows all through, generally described as no to weak hydrocarbon odour, no to rarely spotty stain, dull greenish yellow to dull yellow direct fluorescence, slow streaming to blooming dull blue white cut fluorescence, dull bluish white to greenish yellow fluorescent residue. No visible residue.

A total of 156 m of conventional core were cut in 7 cores in the Permian interval from 2243.6 to 2399.77 m with generally excellent recovery. Core-log shifts, in meters, for the seven cores were (in succession from core 1 to core section): -0.64, -0.08, -0.08, -0.29, -0.37, -0.81, -0.81. No fluid sample was taken.

The well was permanently abandoned on 7 May 2017 as a dry well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
670.00	2529.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2243.6	2244.1	[m]
2	2244.6	2271.6	[m]
3	2271.6	2299.2	[m]
4	2299.2	2318.2	[m]
5	2318.2	2345.1	[m]
6	2345.2	2372.5	[m]
7	2372.5	2395.8	[m]

Total kjerneprøve lengde [m]	151.6
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
369	NORDLAND GP
369	NAUST FM
453	SOTBAKKEN GP
453	TORSK FM
686	KAPP TOSCANA GP
686	SNADD FM
2240	UNDEFINED GP
2240	UNDIFFERENTIATED
2242	TEMPELFJORDEN GP
2242	RØYE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI PPC MSIP GR JAR	368	2505
MDT GR JAR	2258	2349
MSCT GR	2221	2442
MSCT GR	2240	2523
MWD - CCN ORD OTK SDK ZTK	1047	2218



MWD - CCN ORD OTK SDTK ZTK ST	2195	2527
MWD - OTK	369	662
MWD - OTK SDTK	609	1117
MWD - OTK SDTK ZTK	2114	2243
UBI HRLA ADT PEX GR JAR	2211	2526
XPT LTS CMR GR JAR	2211	2511
ZOVSP	384	2518

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	435.5	36	437.5	0.00	
SURF.COND.	20	655.5	26	662.0	1.36	LOT
PILOT HOLE		662.0	9 7/8	662.0	0.00	
INTERM.	13 3/8	1115.1	17 1/2	0.0	1.39	LOT
INTERM.	9 5/8	2210.5	12 1/4	2218.0	1.50	LOT
OPEN HOLE		2527.0	8 1/2	2527.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
421	1.05	50.0		Bentonite Sweeps	
421	1.50	45.0		Displacement mud	
506	1.23	15.0		Performadril	
580	1.05	50.0		Bentonite Sweeps	
580	1.50	35.0		Displacement mud	
600	1.23	16.0		Performadril	
662	1.03	50.0		SWEEPS	
662	1.20	12.0		PERFORMADRIL	
662	1.39	20.0		Displacement mud	
673	1.20	15.0		PERFORMADRIL	
883	1.21	18.0		PERFORMADRIL	
1086	1.22	21.0		PERFORMADRIL	
1448	1.23	21.0		Performadril	
1585	1.22	20.0		Performadril	
1962	1.21	21.0		Performadril	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 30.5.2024 - 12:40

2105	1.22	22.0		Performadril	
2110	1.21	20.0		Performadril	
2158	1.20	20.0		Performadril	
2160	1.15	15.0		Performadril	
2217	1.14	20.0		Performadril	
2218	1.21	19.0		Performadril	
2223	1.14	20.0		Performadril	
2270	1.15	18.0		Performadril	
2316	1.15	17.0		Performadril	
2527	1.15	15.0		Performadril	