



Generell informasjon

Brønnbane navn	7121/1-2 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Brønn navn	7121/1-2
Seismisk lokalisering	OMV0801LNR14: Inline 1884. crossline 1871
Utvinningstillatelse	767
Boreoperatør	Lundin Norway AS
Boretillatelse	1732-L
Boreinnretning	LEIV EIRIKSSON
Boredager	56
Borestart	06.01.2019
Boreslutt	02.03.2019
Plugget og forlatt dato	02.03.2019
Frigitt dato	01.04.2020
Publiseringsdato	01.04.2020
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	315.0
Totalt målt dybde (MD) [m RKB]	3375.0
Totalt vertikalt dybde (TVD) [m RKB]	3360.0
Geodetisk datum	ED50
NS grader	71° 47' 38.4" N
ØV grader	21° 7' 30.53" E
NS UTM [m]	7966176.12
ØV UTM [m]	504364.31
UTM sone	34
NPDID for brønnbanen	8608



Brønnhistorie

General

Well 7121/1-2 S was drilled to test the Setter and Pointer prospects in the Hammerfest Basin of the Barents Sea. The primary objective was to test the reservoir properties and hydrocarbon potential of the Early Cretaceous Kolmule (Setter prospect) and Knurr (Pointer prospect) formations. The secondary objective was to test the presence and reservoir properties of the Middle Jurassic Stø Formation.

Operations and results

Wildcat well 7121/1-2 S was spudded with the semi-submersible installation Leiv Eiriksson on 6 January 2019 and drilled to TD at 3375 m (3360 m TVD) m in the Middle Jurassic Stø Formation. A 9 7/8" pilot hole was drilled from 410 to 806 m. No shallow gas was observed. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 808 m and with High Performance water-based mud with 3.5 – 5% glycol from 808 m to TD.

The well proved reservoir from 2109 m 2149 m (2093.8 to 2133.8 m TVD) at base Kolmule Formation, but the sandstones were water wet with only weak shows (weak cut and residue fluorescence). Reservoir was also proved in the Knurr Formation with main sands in the interval ca 2794 to 2890 m (2779 to 2875 m TVD). The Knurr Formation sandstones had fair to good oil shows with weak odour, direct fluorescence and cut and residue fluorescence, and oil was sampled in the upper part of the sandiest interval. The Knurr sands were however generally tight due to extensive cementation. Sandstone stringers/sandstones without hydrocarbon shows were encountered in the Hekkingen Formation and in the Stø Formation.

Two cores were cut. Core 1 was cut from 2795 to 2819.1 m with 99% recovery. The core-log depth shift for this core is 2.46 m. Core 2 was cut from 2826 to 2853 m with 98.3% recovery. The core-log depth shift for this core is 2.94 m. MDT fluid samples were taken at 2133.92 m (water), 2792.49 m (oil), 2872.78 m (water), 2893.60 m (water), and 2915.00 m (water).

The well was permanently abandoned on 1 March 2019 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
810.00	3375.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 10.5.2024 - 16:20

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2795.0	2818.9	[m]
2	2826.0	2852.5	[m]

Total kjerneprøve lengde [m]	50.4
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
340	NORDLAND GP
443	SOTBAKKEN GP
443	TORSK FM
1200	NYGRUNNEN GP
1200	KVEITE FM
2072	ADVENTDALEN GP
2072	KOLMULE FM
2149	KOLJE FM
2733	KNURR FM
3061	HEKKINGEN FM
3285	FUGLEN FM
3343	KAPP TOSCANA GP
3343	STØ FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI MSIP	2700	3370
FMI MSIP GR	340	2798
HRLA NEXT PEX HNGS	2376	3378
HRLA NEXT PEX HNGS XPT	0	0
MDT	2133	2794
MDT	2789	2825
MDT	2872	3360
MWD - GR PWD RES DIR AC	407	806
MWD - GR RES PWD NEU DEN CAL AC	2017	3375



MWD - PWD GR DIR	340	808
MWD- GR RES PWD DIR AC	813	2017
VSP	530	3370
XL ROCK	2033	3374

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	406.8	36	407.1	0.00	
SURF.COND.	20	800.7	26	808.0	1.30	LOT
PILOT HOLE		806.0	9 7/8	806.0	0.00	
INTERM.	9 5/8	2009.2	12 1/4	2017.0	1.58	LOT
OPEN HOLE		3375.0	8 1/2	3375.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
381	1.05	20.0		Bentonite Spud Mud	
381	1.50	10.0		KCL/Gem	
407	1.05	29.0		Bentonite Spud Mud	
407	1.50	10.0		KCL/Gem	
550	1.05	34.0		Bentonite Spud Mud	
550	1.39	12.0		DISPLACEMENT MUD	
615	1.03	1.0		Sea water	
730	1.20	15.0		HP WBM	
795	1.05	34.0		Bentonite Spud Mud	
795	1.39	12.0		DISPLACEMENT MUD	
808	1.05	34.0		Bentonite Spud Mud	
813	1.20	21.0		HP WBM	
1750	1.24	21.0		HP WBM	
2000	1.20	16.0		HP WBM	
2009	1.24	22.0		HP WBM	



2017	1.24	15.0		HP WBM	
2022	1.24	15.0		HP WBM	
2819	1.24	18.0		HP WBM	
3375	1.24	22.0		HP WBM	