



Generell informasjon

Brønnbane navn	7220/6-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Brønn navn	7220/6-3
Seismisk lokalisering	LN15M03.Inline 28106.crossline 30664
Utvinningstillatelse	609
Boreoperatør	Lundin Norway AS
Boretillatelse	1660-L
Boreinnretning	LEIV EIRIKSSON
Boredager	35
Borestart	01.09.2017
Boreslutt	05.10.2017
Frigitt dato	05.10.2019
Publiseringsdato	05.10.2019
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	425.0
Totalt målt dybde (MD) [m RKB]	1300.0
Totalt vertikalt dybde (TVD) [m RKB]	1300.0
Maks inklinasjon [°]	2.3
Eldste penetrerte alder	CARBONIFEROUS
Eldste penetrerte formasjon	FALK FM
Geodetisk datum	ED50
NS grader	72° 43' 41.13" N
ØV grader	20° 50' 54.64" E
NS UTM [m]	8079812.21
ØV UTM [m]	693550.04
UTM sone	33
NPDID for brønnbanen	8203



Brønnhistorie

General

Well 7220/6-3 was drilled to test the Børselv prospect on the western side of the Loppa High in the Barents Sea. The primary objective was to test the reservoir properties and hydrocarbon potential in the carbonates of the Ørn Formation. TD was planned at 1300 m, 50 m below the Ørn Formation or 50 m into Basement, whichever came first.

Operations and results

Wildcat well 7220/6-3 was spudded with the semi-submersible installation Leiv Eiriksson on 1 September 2017 and drilled to TD at 1300 m in the Late Carboniferous Falk Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis sweeps down to 507 m, with KCl-GEM-polymer water-based mud from 504 to 586 m and with Performadril water-based mud from 586 m to TD.

The well encountered a 380 m thick sequence of Gipsdalen Group carbonates with medium to poor reservoir quality. The reservoir was water bearing with shows. Above the Ørn Formation the first oil show was in a single cuttings sample at 560 m. This had direct fluorescence, cut fluorescence and residue fluorescence. Weak shows were described on cuttings, sidewall cores and conventional cores from 733 to 757 m. Within the Ørn Formation the cored intervals 795 to 810 m, 817 to 839 m, and 858 to 864 m had good oil shows, generally described with "no to good HC odour, no stain to good trace dark brown oil, patchy bright yellow direct fluorescence to bright yellow direct fluorescence, slow streaming blue white fluorescent cut, blue white fluorescent residue". Sidewall cores in the interval 912 to 972 m had shows described as "40-70 % patchy dull yellow direct fluorescence, slow diffuse to streaming dull blue white fluorescent cut, 20% dull bluish white to cream fluorescent residue. There were no shows below 972 m.

The interval from 755 to 864.62 m was cored in four cores, with 100% total recovery. Core depths are equal to logger depths. No fluid sample was taken.

The well was permanently abandoned on 5 October 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]
510.00	1300.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	755.0	782.2	[m]
2	782.2	809.7	[m]
3	809.7	837.1	[m]
4	837.1	864.6	[m]

Total kjerneprøve lengde [m]	109.6
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
450	NORDLAND GP
509	KAPP TOSCANA GP
509	SNADD FM
750	BJARMELAND GP
750	ULV FM
795	GIPSDALEN GP
795	ØRN FM
1181	FALK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR NEXT XPT	734	1285
FMI MSIP	730	1300
MSCT	733	1297
MWD - OTII	450	577
MWD - ZT OT	526	755
MWD - ZT OT OTD CCN ST	729	1300
UIB ADT HRLA PEX HNGS	680	1297
VSI	458	1297

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	504.6	36	504.6	0.00	
INTERM.	13 3/8	580.0	17 1/2	586.0	1.53	FIT
LINER	9 5/8	729.0	12 1/4	730.0	1.40	FIT
OPEN HOLE		1300.0	8 1/2	1300.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
450	1.50			WBM	
450	1.04			WBM	
457	1.03	1.0		Other	
480	1.20	16.0		WBM	
500	1.04			WBM	
505	1.04			WBM	
505	1.50			WBM	
508	1.50	25.0		WBM	
586	1.20	19.0		WBM	
586	1.20	20.0		WBM	
591	1.20	19.0		WBM	
730	1.22	11.0		WBM	
730	1.20	17.0		WBM	
1300	1.20	15.0		WBM	