



Generell informasjon

Brønnbane navn	7130/4-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7130/4-1 (Ørnen)
Brønn navn	7130/4-1
Seismisk lokalisering	St9802LNR13 .inline 1717 & crossline 3224
Utvinningstillatelse	708
Boreoperatør	Lundin Norway AS
Boretillatelse	1600-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	48
Borestart	22.11.2015
Boreslutt	08.01.2016
Frigitt dato	17.04.2017
Publiseringsdato	21.06.2017
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	CARBONIFEROUS
1. nivå med hydrokarboner, formasjon.	SOLDOGG FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	288.0
Totalt målt dybde (MD) [m RKB]	3184.0
Totalt vertikalt dybde (TVD) [m RKB]	3184.0
Maks inklinasjon [°]	2.3
Eldste penetrerte alder	CARBONIFEROUS
Eldste penetrerte formasjon	SOLDOGG FM
Geodetisk datum	ED50
NS grader	71° 31' 58.72" N
ØV grader	30° 10' 7.78" E



NS UTM [m]	7939401.90
ØV UTM [m]	399934.23
UTM sone	36
NPDID for brønnbanen	7788

Brønnhistorie

General

Well 7130/4-1 was drilled to test the Ørnen prospect on the Finmark Platform in the Barents Sea. The primary objective was to test the hydrocarbon potential of the Late Permian age Røye Formation spiculites. Secondary objective was to test the Ørn Formation carbonates. In a discovery case, the well had an option to target the deeper sandstones of the Carboniferous Soldogg Formation.

Operations and results

Wildcat well 7130/4-1 was spudded with the semi-submersible installation Transocean Arctic on 22 November 2015 and drilled to TD at 3184 m in the Early Carboniferous Soldogg Formation. A 9 7/8" pilot hole was drilled from 382 to 588 m to look for shallow gas. No shallow gas or water flow was encountered. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis pills down to 588 m and with GEM/KCl mud from 588 m to TD.

The main target consisting of Late Permian Røye Formation spiculites and carbonates was encountered at 2055 m. The spiculite reservoir extended from 2055 to 2093.5 m, with a reservoir quality poorer than expected. Sampling registered only water with no indications of movable hydrocarbons. Only mineral fluorescence was reported at the wellsite. Further analysis of the core in the laboratory revealed traces of oil stain, bleeding oil, hydrocarbon odour and bright yellowish white direct fluorescence associated with fracturing and permeable laminae in the uppermost part of the 'Røye I' interval.

The secondary target, Permo-Carboniferous carbonates of the Bjarmeland Group, was encountered at 2231 m. The carbonates had minor hydrocarbon shows and poor reservoir characteristics. Subsequently, the well was deepened into the third target, the Lower Carboniferous sandstones of the Soldogg Formation, encountering moderate to good sands with a 5-metre gas column from 3029 to 3034 m.

Two cores were cut from 2045 m above the spiculite interval to 2096.5 m thus capturing the whole Røye spiculite interval. The core recovery was 100%. MDT fluid samples were taken at 2055.9 m (water), 3031.6 m (gas), and 3081.2 m (water).

The well was permanently abandoned on 8 January 2016 as a gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
600.00	3184.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2045.0	2070.3	[m]
2	2070.3	2096.4	[m]

Total kjerneprøve lengde [m]	51.4
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
312	NORDLAND GP
335	ADVENTDALEN GP
335	KOLJE FM
561	KNURR FM
575	HEKKINGEN FM
601	FUGLEN FM
605	KAPP TOSCANA GP
605	STØ FM
612	FRUHOLMEN FM
626	SNADD FM
663	UNDEFINED GP
690	SNADD FM
727	UNDEFINED GP
747	SNADD FM
754	SASSENDALEN GP
754	KOBBE FM
1302	HAVERT FM
1895	UNDEFINED GP
2055	TEMPELFJORDEN GP
2055	RØYE FM
2231	BJARMELAND GP
2231	ISBJØRN FM
2320	GIPSDALEN GP



2320	ØRN FM
2496	FALK FM
2680	BILLEFJORDEN GP
2680	BLÆREROT FM
2781	TETTEGRAS FM
2996	SOLDOGG FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CN ZDL ORIT XMAC RTEX MLL	1766	3175
GR GW VSP	688	3148
MAXCORE GR	1884	3143
MDT GR	1899	3146
MWD - OTK BCPM SDTK	356	586
MWD - OTKII BCPM	309	370
MWD - OTKII BCPM SDTK LTK GR ABR	1739	3184
MWD - OTKII BCPM SDTK NBGR	547	1804
XLR GR	1884	2766

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	378.0	36	582.6	0.00	
SURF.COND.	20	583.5	26	588.0	1.79	LOT
PILOT HOLE		588.0	9 7/8	588.0	0.00	
INTERM.	13 3/8	1798.7	17 1/2	1806.0	1.76	LOT
OPEN HOLE		3184.0	8 1/2	3184.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
0	1.40	28.0		Water Based	
382	1.40	28.0		Water Based	
627	1.20	14.0		Water Based	
1049	1.20	14.0		Water based	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 20.5.2024 - 11:57

1600	1.20	27.0		Water Based	
1950	1.20	27.0		Water Based	
2510	1.15	26.0		Water Based	
3006	1.16	22.0		Water Based	
3184	1.17	25.0		Water Based	