



Generell informasjon

Brønnbane navn	7220/11-2 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7220/11-1 (Alta)
Brønn navn	7220/11-2
Seismisk lokalisering	LN12M01 inline 29260 & crossline 24266
Utvinningstillatelse	609
Boreoperatør	Lundin Norway AS
Boretillatelse	1577-L
Boreinnretning	ISLAND INNOVATOR
Boredager	43
Borestart	03.05.2015
Boeslutt	14.06.2015
Frigitt dato	14.06.2017
Publiseringsdato	14.06.2017
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	TRIASSIC
1. nivå med hydrokarboner, formasjon.	UNDIFFERENTIATED
Avstand, boredekk - midlere havflate [m]	30.0
Vanndybde ved midlere havflate [m]	379.0
Totalt målt dybde (MD) [m RKB]	2121.0
Totalt vertikalt dybde (TVD) [m RKB]	2071.0
Maks inklinasjon [°]	19.3
Temperatur ved bunn av brønnbanen [°C]	73
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	72° 0' 37.55" N
ØV grader	20° 26' 9.01" E



NS UTM [m]	7998765.38
ØV UTM [m]	687161.60
UTM sone	33
NPDID for brønnbanen	7693

Brønnhistorie

General

Well 7220/11-2 A is a geological sidetrack to well 7220/11-2. Both wells were drilled to appraise the 7220/11-1 Alta discovery. The main well found gas in Early Triassic sandstones and conglomerate, but no producible oil due to tight formation in the lower part of the reservoir. The objective of 7220/11-2 A was to investigate reservoir quality and confirm the presence of an oil leg on the western flank of the Alta structure.

Operations and results

Appraisal well 7220/11-2 A was kicked off at 635 m in the main well on 3 May 2015. It was drilled with the semi-submersible installation Island Innovator to TD at 2121 m (2071 m TVD) in basement rocks. No significant problem was encountered in the operations. The well was drilled with Aquadril mud from kick-off to TD.

Top of the target reservoir was encountered at 1951.8 m (1901.7 m TVD). The reservoir consists of Early Triassic sandstone and conglomerates, similar as in the main well. The reservoir was oil and gas bearing. The contacts in the 7220/11-1 discovery well were not confirmed; however, pressure points indicated a common fluid system with the main well and with 7220/11-1. The thickness of the reservoir is 102 m TVD, ca 13 m thicker than in the main well. Between base reservoir and top basement, well 7220/11-2 A penetrated a 14 m thick sequence with marl, claystone and dolomite, possibly belonging to the Gipsdalen Group. Oil shows were similar as in the main well bore: on siltstone and sandstones from top Toscana Group to top reservoir, throughout the reservoir, and down to 2079 m in the basement.

Six conventional cores were cut in the interval 1926.6 to 2048.66 m (125.9 m). Recovery for core 1 was 99%, for the remaining cores recovery was 100%. The core-log depth shift is -2.19 m for all cores. MDT fluid samples were taken at 1967.15 m (oil), 1989.71 m (oil), 2008.72 m (water), and 2030.11 m (water)

The well was permanently abandoned on 14 June 2015 as an oil and gas appraisal well.

Testing

A production test was performed from the interval 1965.2 to 1997.37 m. The test produced 136 Sm³ oil and 18500 Sm³ gas /day through a 24/64" choke in the main flow. The flowing temperature was 68.8 °C, measured at 1952.6 m.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
620.00	2121.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1926.6	1936.4	[m]
2	1936.5	1937.8	[m]
3	1937.8	1965.6	[m]
4	1965.6	1993.6	[m]
5	1993.6	2021.1	[m]
6	2021.1	2048.6	[m]

Total kjerneprøve lengde [m]	121.9
Kjerner tilgjengelig for prøvetaking?	YES

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		0.00	0.00	OIL	04.06.2015 - 00:00	YES
MDT		0.00	0.00	OIL	04.06.2015 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
409	NORDLAND GP
409	UNDIFFERENTIATED
465	SOTBAKKEN GP
465	TORSK FM
587	ADVENTDALEN GP
587	KOLMULE FM
623	KAPP TOSCANA GP
623	SNADD FM
1927	SASSENDALLEN GP
1927	KOBBE FM
1952	NO GROUP DEFINED



1952	UNDIFFERENTIATED
2054	NO GROUP DEFINED
2054	UNDIFFERENTIATED
2068	BASEMENT

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1965	1997	9.5

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0	136	24000			141

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR XPT ADT	1911	2110
FMI MSIP	409	2119
MDT	1928	2052
MWD - BR GR REMP BHPR MECH AAC	566	1222
MWD - GR BHPR MECH	409	465
MWD - GR REMP BHPR MECH DEN NEU	1158	2121
MWD - GR REMP BHPR MECH AAC	456	598
UBI PEX HRLA HNGS NEXT	1851	2113
USIT	1790	2120

Foringsrør og formasjonsstyrketester



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 31.5.2024 - 22:35

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm ³]	Type formasjonstest
CONDUCTOR	30	476.0	36	479.0	0.00	
SURF.COND.	20	591.3	26	599.0	1.57	FIT
PILOT HOLE		601.0	9 7/8	601.0	0.00	
INTERM.	13 3/8	1215.2	17 1/2	1222.0	1.80	FIT
INTERM.	9 5/8	1853.0	12 1/4	1860.0	1.68	LOT
LINER	7	2120.0	8 1/2	2121.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1026	1.23	23.0		Water Based	
1222	1.25	19.0		Water Based	
1494	1.23	11.0		Water Based	
1729	1.23	16.0		Water Based	
1865	1.15	9.0		Water Based	
1938	1.15	12.0		Water Based	
2120	1.14	1.0		Water Based	
2121	1.15	15.0		Water Based	