



Generell informasjon

Brønnbane navn	31/7-1 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	31/7-1 (Brasse)
Brønn navn	31/7-1
Seismisk lokalisering	Inline 2414. Xline 2615 (LN1 M03)
Utvinningstillatelse	740
Boreoperatør	Faroe Petroleum Norge AS
Boretillatelse	1632-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	24
Borestart	23.06.2016
Boreslutt	14.07.2016
Frigitt dato	14.07.2018
Publiseringsdato	14.07.2018
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	SOGNEFJORD FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	119.0
Totalt målt dybde (MD) [m RKB]	2530.0
Totalt vertikalt dybde (TVD) [m RKB]	2293.0
Maks inklinasjon [°]	37.5
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	FENSFJORD FM
Geodetisk datum	ED50
NS grader	60° 25' 31.55" N
ØV grader	3° 1' 28.23" E
NS UTM [m]	6698949.76



ØV UTM [m]	501349.50
UTM sone	31
NPDID for brønnbanen	8008

Brønnhistorie

Wellbore history

General

Well 31/7-1 A is a geological sidetrack to 31/7-1 on the northern part of the Bjørgvin Arch between the Brage and Oseberg Sør fields in the North Sea. The 31/7-1 Brasse mainbore found oil and gas in the Late Jurassic Sognefjord Formation. The Brasse sidetrack was drilled in the southeast direction from 31/7-1, across a minor fault. The purpose was to reduce the uncertainty for the hydrocarbon contacts as well as to investigate the continuity and facies development of the reservoir.

Operations and results

Appraisal well 31/7-1 A was kicked off at 913 m in the main bore on 22 June 2016. It was drilled with the semi-submersible installation Transocean Arctic to TD at 2530 m in the Middle Jurassic Fensfjord Formation. No significant problem was encountered in the operations. The well was drilled with KCl/polymer/GEM mud from kick-off to TD

The well encountered the Sognefjord Formation at 2370.5 m (2166.5 m TVD) at the prognosed depth, just below the Draupne shales. The Fensfjord Formation was encountered at the prognosed depth of 2477 m (2254.5 m TVD).

The Sognefjord Formation sandstones / siltstones were gas and oil bearing with a gross vertical hydrocarbon column of 5.5 m gas and 24.4 m oil. The Sognefjord Formation had 88 m gross vertical reservoir, with 41.2 m net reservoir and 12.3 m net vertical pay zone. The Fensfjord Formation was water bearing. The GOC was interpreted at 2380 (2172 m TVD) and the OWC at 2409.7 m (2196.4 m TVD), confirming the contacts from the mainbore. The only oil shows reported from the well were on the cores from the hydrocarbon-bearing part of the Sognefjord Formation.

Two cores were cut from 2362 to 2425 m with 100% recovery. MDT fluid samples were taken at 2399.5 m (oil) and 2409.8 m (water).

The well was permanently abandoned on 14 July 2016 as an oil and gas appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
940.00	2530.00



Borekaks tilgjengelig for prøvetaking?	YES
--	-----

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2362.0	2398.0	[m]
2	2398.0	2425.6	[m]

Total kjerneprøve lengde [m]	63.6
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
143	NORDLAND GP
679	UTSIRA FM
837	HORDALAND GP
837	NO FORMAL NAME
1964	ROGALAND GP
1964	BALDER FM
2052	SELE FM
2108	LISTA FM
2268	VÅLE FM
2275	SHETLAND GP
2275	HARDRÅDE FM
2355	VIKING GP
2355	DRAUPNE FM
2371	SOGNEFJORD FM
2478	FENSFJORD FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - ECD GR RES DIR DEN CAL NEU	2325	2530
LWD - NBI RES ECD GR DIR	913	2317



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	209.0	36	209.0	0.00	
SURF.COND.	13 3/8	902.0	17 1/2	908.0	1.70	LOT
PILOT HOLE		908.0	9 7/8	908.0	0.00	
INTERM.	9 5/8	2309.0	12 1/4	2317.0	1.59	LOT
OPEN HOLE		2530.0	8 1/2	2530.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
250	1.02			Sea water	
372	1.03	9.0		Sweeps	
439	1.15	40.0		KCL/Polymer/Glycol	
442	1.49	36.0		Kill/DIsplacment Mud	
504	1.03	13.0		Sweeps	
504	1.49	34.0		Kill/DIsplacment Mud	
587	1.15	40.0		KCL/Polymer/Glycol	
587	1.49	34.0		Kill/DIsplacment Mud	
850	1.41	13.0		KCL / Polymer / GEM	
1025	1.49	27.0		KCL / Polymer / GEM	
2091	1.44	28.0		KCL / Polymer / GEM	
2154	1.51	32.0		KCL / Polymer / GEM	
2208	1.41	28.0		KCL /Polymer / GEM	
2241	1.44	22.0		KCL / Polymer / GEM	
2317	1.26	15.0		KCL / Polymer / GEM	
2317	1.44	26.0		KCL / Polymer / GEM	
2327	1.24	15.0		KCL / Polymer / GEM	



2530	1.24	21.0		KCL / Polymer / GEM	
------	------	------	--	------------------------	--