



Generell informasjon

Brønnbane navn	6407/10-4
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6407/10-4
Seismisk lokalisering	LN13002 : inline 2478 & crossline 2528
Utvinningstillatelse	700 B
Boreoperatør	Lundin Norway AS
Boretillatelse	1579-L
Boreinnretning	ISLAND INNOVATOR
Boredager	68
Borestart	13.11.2015
Boreslutt	19.01.2016
Frigitt dato	19.01.2018
Publiseringsdato	19.01.2018
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	30.0
Vanndybde ved midlere havflate [m]	335.0
Totalt målt dybde (MD) [m RKB]	3224.0
Totalt vertikalt dybde (TVD) [m RKB]	3224.0
Maks inklinasjon [°]	3
Temperatur ved bunn av brønnbanen [°C]	115
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	64° 7' 51.78" N
ØV grader	7° 1' 28.32" E
NS UTM [m]	7113285.28
ØV UTM [m]	403835.34
UTM sone	32
NPDID for brønnbanen	7699



Brønnhistorie

Wellbore history

General

Well 6407/10-4 was drilled on the Frøya High in the Norwegian Sea. The primary objective was to test Late Jurassic Rogn Formation sandstone in the Lorry Prospect. The secondary objective was to test carbonate rocks in the underlying Permian Broker Lead.

Operations and results

Wildcat well 6407/10-4 was spudded with the semi-submersible installation Island Innovator on 13 November 2015 and drilled to TD at 3224 m in metamorphic sandstone. Due to bad weather operations suffered 21.2 days WOW, otherwise no significant problem was encountered. The well was drilled with seawater and hi-vis pills down to 740 m and with Aquadril mud from 740 m to TD.

The well did not encounter reservoir rocks in the primary or secondary exploration targets: no Rogn Formation or Permian carbonates were present. However, the well did encounter about 780 metres of sandstones within the Triassic Grey Beds and Red Beds, with poor to moderate reservoir quality. Residual hydrocarbons were identified in sidewall cores at 2390.2 and 2392.2 m and in the cored section between 2399.8 m and 2400.5 m. These shows are confirmed by post-well organic geochemical analyses as migrated hydrocarbons.

One core was cut from 2399.7 to 2417.5 m in the Grey Beds. No fluid sample was taken.

The well was permanently abandoned on 19 January 2016 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
750.00	3225.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2399.7	2417.4	[m]

Total kjerneprøve lengde [m]	17.7
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
365	NORDLAND GP
365	NAUST FM
845	KAI FM
1046	HORDALAND GP
1046	BRYGGE FM
1552	ROGALAND GP
1552	TARE FM
1681	TANG FM
1771	SHETLAND GP
1771	SPRINGAR FM
1842	NISE FM
1923	KVITNOS FM
2349	CROMER KNOLL GP
2349	LANGE FM
2368	LYR FM
2379	VIKING GP
2379	SPEKK FM
2390	GREY BEDS (INFORMAL)
2500	RED BEDS (INFORMAL)
3169	BASEMENT

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI MSIP	2270	3219
MWD - GR PWD RES DIR SON	413	737
MWD - GR RES PWD DIR	740	745
MWD - PWD DIR	413	737



MWD - PWD GR DIR	367	420
MWD - RES GR PWD CAL DEN NEU AC	1408	3224
MWD - RES GR PWD DIR AC	716	1408
XLROCK GR	2390	3206
XPT HRLA PEX HNGS	2270	3211

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	430.5	36	435.0	0.00	
SURF.COND.	20	732.2	26	740.0	1.56	LOT
PILOT HOLE		740.0	9 7/8	740.0	0.00	
INTERM.	13 3/8	1401.4	17 1/2	1408.0	0.00	
		1413.0		1413.0	1.75	LOT
INTERM.	9 5/8	2270.5	12 1/4	2278.0	1.74	LOT
OPEN HOLE		3224.0	8 1/2	3224.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
365	1.40	13.0		Water Based	
365	1.04	1.0		Water Based	
437	1.50	16.0		Water Based	
740	1.40	15.0		Water Based	
740	1.25	11.0		Spud Mud	
1016	1.35	16.0		Water Based	
1075	1.40	17.0		Water Based	
1408	1.52	11.0		Water Based	
1408	1.40	19.0		Water Based	
2278	1.48	19.0		Water Based	
2278	1.52	17.0		Water Based	
2399	1.48	14.0		Water Based	
2721	1.48	15.0		Water Based	
3163	1.48	14.0		Water Based	
3224	1.48	16.0		Water Based	

