



## Generell informasjon

Brønnbane navn	6406/12-G-1 H
Type	EXPLORATION
Formål	WILDCAT
Status	PLUGGED
Pressemelding	<a href="#">lenke til pressemelding</a>
Faktakart i nytt vindu	<a href="#">lenke til kart</a>
Hovedområde	NORWEGIAN SEA
Funn	<a href="#">6406/12-G-1 H (Frisbee)</a>
Brønn navn	6406/12-G-1
Seismisk lokalisering	
Utvinningstillatelse	<a href="#">586</a>
Boreoperatør	Neptune Energy Norge AS
Boretillatelse	1815-L
Boreinnretning	<a href="#">WEST PHOENIX</a>
Boredager	53
Borestart	02.09.2020
Boreslutt	24.10.2020
Plugget dato	24.10.2020
Frigitt dato	24.10.2022
Publiseringsdato	24.10.2022
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	MELKE FM
Avstand, boredekk - midlere havflate [m]	38.6
Vanndybde ved midlere havflate [m]	322.4
Totalt målt dybde (MD) [m RKB]	4235.0
Totalt vertikalt dybde (TVD) [m RKB]	3734.0
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	MELKE FM
Geodetisk datum	ED50
NS grader	64° 1' 50.48" N
ØV grader	6° 45' 2.87" E
NS UTM [m]	7102548.56



ØV UTM [m]	390119.10
UTM sone	32
NPDID for brønnbanen	9036

## Brønnhistorie

### General

Well 6406/12-G-1 H is an extension of an observation well for the 6406/12-3 A (Bue) oil discovery. The well was drilled on the Fenja field on the southern end of the Halten Terrace in the Norwegian Sea. The primary objective of the exploration section was to confirm oil in Rogn Formation sandstones in the north-eastern part of the Fenja Field, and thereby reduce uncertainty in the resource estimates. Secondary objective was to test Intra Melke Formation sandstones.

### Operations and results

A 9 7/8" pilot hole designated 6406-12-U-1 was drilled down to 1240 m to check for shallow gas. No shallow gas was detected.

Well 6406/12-G-1 H was spudded with the semi-submersible installation West Phoenix on 3 May 2020 and drilled to TD at 4235 m (3734 m TVD) in Middle Jurassic (Callovian) claystone belonging to the Melke Formation. The well was drilled in 67.7 days vs. the planned 38.4 days with 13 days (19%) WOW and 8.4 days (12.3%) NPT. Main source of WOW was related to running the 20" casing and while running the 13-5/8" casing. NPT was mainly due to loosing and fishing of Wireline tool string, as well as reduced crew availability due to Covid-19 outbreak on the rig. The well was drilled with seawater and hi-vis pills down to 1244 m, with RheGuard oil-based mud from 1244 to 2477 m, and with Exploradrill oil-based mud from 2477 to TD.

Well 6406/12-G-1 H did not encounter reservoir rocks in the primary Bue/Rogn Formation target. The well did however encounter moveable hydrocarbons in Intra-Melke Formation sandstones just below a thin Spekk Formation. These sandstones were penetrated from 3861 to 3956 m (3376.6 to 3462.6 m TVD). The best sands were in the upper part with progressively poorer sands and increasing claystone interbeds downwards. Petrophysical analysis indicated pay zones down to 3872 m (3386.6 m TVD). A possible Oil-Down-To (ODT) is indicated at 3955.2m MD (3462.5 m TVD) based on weakening fluorescence in core three. The hydrocarbons in the Intra Melke Formation sandstones were in a different pressure regime compared to both the Pil (intra-Melke Formation sandstones) and the Bue (Rogn Formation) discoveries.

Three cores were cut. Core one was cut from 3868 to 3871.3 m with 51.5% recovery. The core jammed off in what appeared to be a coal bed. Core two was cut from 3871.3 to 3925.9 m with 100% recovery. Core three was cut from 3925.9 to 3962.3 m with 99.4% recovery. MDT oil samples were taken at 3865.8 m (3381.1 m TVD).

The well was permanently abandoned on 24 October 2020 as an oil discovery.

### Testing

No drill stem test was performed.

## Borekjerner i Sokkeldirektoratet



## Faktasider

### Brønnbane / Leting

Utskriftstidspunkt: 19.5.2024 - 22:21

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3868.0	3869.7	[m ]
2	3871.3	3926.1	[m ]
3	3926.0	3962.1	[m ]

Total kjerneprøve lengde [m]	92.6
Kjerner tilgjengelig for prøvetaking?	YES

### Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
361	<a href="#">HORDALAND GP</a>
361	<a href="#">NO FORMAL NAME</a>
1142	<a href="#">KAI FM</a>
1225	<a href="#">HORDALAND GP</a>
1225	<a href="#">BRYGGE FM</a>
1966	<a href="#">ROGALAND GP</a>
1966	<a href="#">TARE FM</a>
2063	<a href="#">TANG FM</a>
2261	<a href="#">SHETLAND GP</a>
2261	<a href="#">SPRINGAR FM</a>
2360	<a href="#">NISE FM</a>
2545	<a href="#">KVITNOS FM</a>
3250	<a href="#">CROMER KNOTT GP</a>
3250	<a href="#">LANGE FM</a>
3823	<a href="#">LYR FM</a>
3859	<a href="#">VIKING GP</a>
3859	<a href="#">SPEKK FM</a>
3861	<a href="#">MELKE FM</a>

### Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MDT	3888	3899
MWD LWD - TELE	322	450
MWD LWD - TELE ARCVIS	430	1244



## Faktasider

### Brønnbane / Leting

Utskriftstidspunkt: 19.5.2024 - 22:21

MWD LWD - TELE EC GV ST SV SS PV	2470	4235
MWD LWD - TELE SON ARCVIS	1244	2470
QG MDT	3700	3955

### 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	422.8	36	430.0	0.00	
INTERM.	20	1237.3	26	1244.0	1.63	FIT
INTERM.	13 3/8	2470.0	17 1/2	2477.4	1.78	FIT
OPEN HOLE		4235.0	8 1/2	4235.0	0.00	

### Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
424	1.03			Water	
1244	1.50		9.0	Water	
1700	1.55		14.3	Oil	
2477	1.58		11.4	Oil	
2655	1.60		7.6	Oil	
3868	1.61		7.6	Oil	
4235	1.60		10.0	Oil	