



## Generell informasjon

Brønnbane navn	6406/6-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	<a href="#">lenke til pressemelding</a>
Faktakart i nytt vindu	<a href="#">lenke til kart</a>
Hovedområde	NORWEGIAN SEA
Funn	<a href="#">6406/6-3 (Mjøsa)</a>
Brønn navn	6406/6-3
Seismisk lokalisering	WINO09M02 inline 760 & xline 2806
Utvinningstillatelse	<a href="#">511</a>
Boreoperatør	Wintershall Norge AS
Boretillatelse	1446-L
Boreinnretning	<a href="#">TRANSOCEAN ARCTIC</a>
Boredager	86
Borestart	14.04.2013
Boreslutt	09.07.2013
Frigitt dato	09.07.2015
Publiseringsdato	13.08.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	GARN FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	243.0
Totalt målt dybde (MD) [m RKB]	4420.0
Totalt vertikalt dybde (TVD) [m RKB]	4419.0
Maks inklinasjon [°]	5.1
Temperatur ved bunn av brønnbanen [°C]	159
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	64° 34' 24.49" N



ØV grader	6° 58' 27.53" E
NS UTM [m]	7162647.49
ØV UTM [m]	402962.76
UTM sone	32
NPDID for brønnbanen	7156

## Brønnhistorie

### General

Well 6406/6-3 Mjøsa was drilled on the Halten Terrace in the Norwegian Sea, about 25 kilometres south of the Tyrihans field and about 15 kilometres northeast of the 6406/9-1 Linnorm discovery. The primary target was the Middle Jurassic Ille Formation with secondary targets in the Lower Jurassic of Tofte, Tilje and Åre Formation.

### Operations and results

Wildcat well 6406/6-3 was spudded with the semi-submersible installation Transocean Arctic on 14 April 2013 and drilled to TD at 4420 m in the Early Jurassic Åre Formation. A 9 7/8" pilot hole was drilled from 377 m to 1400 m to check for shallow gas. No shallow gas was seen. Operations proceeded without significant problems. The well was drilled with seawater down to 377 m, with KCl/GEM/polymer mud from 377 m to 1400 m, and with XP-07 oil based mud from 1400 m to TD.

The Melke Formation, where the 9-7/8" casing was set, was found thinner than expected due to condensed and partially eroded section on top of the structure. The Garn Formation was encountered at 3802 m. The Garn Formation was evaluated pre-drill as most likely shaled out, but proved to have good overall reservoir quality and was also found to contain dry gas in the topmost part with a gas-water contact at 3816 m. All the pre-drill Jurassic targets deeper down were found water bearing and in general with better than expected reservoir quality. No oil shows were described in the well.

No conventional cores were cut. Sidewall cores were taken in the Garn Formation. RCX fluid samples were taken at 3803 m (gas) and 3841.5 m (water).

The well was permanently abandoned on 9 July 2013 as a gas discovery.

### Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1410.00	4421.00
Borekaks tilgjengelig for prøvetaking?	YES

## Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
267	<a href="#">NORDLAND GP</a>
555	<a href="#">NAUST FM</a>
1337	<a href="#">KAI FM</a>
1669	<a href="#">HORDALAND GP</a>
1669	<a href="#">BRYGGE FM</a>
2173	<a href="#">ROGALAND GP</a>
2173	<a href="#">TARE FM</a>
2258	<a href="#">TANG FM</a>
2324	<a href="#">SHETLAND GP</a>
2324	<a href="#">SPRINGAR FM</a>
2505	<a href="#">NISE FM</a>
2758	<a href="#">KVITNOS FM</a>
2848	<a href="#">CROMER KNOLL GP</a>
2848	<a href="#">LYSING FM</a>
3172	<a href="#">LANGE FM</a>
3721	<a href="#">LYR FM</a>
3732	<a href="#">VIKING GP</a>
3732	<a href="#">SPEKK FM</a>
3753	<a href="#">MELKE FM</a>
3802	<a href="#">FANGST GP</a>
3802	<a href="#">GARN FM</a>
3855	<a href="#">NOT FM</a>
3921	<a href="#">ILE FM</a>
4035	<a href="#">BÅT GP</a>
4035	<a href="#">ROR FM</a>
4064	<a href="#">TOFTE FM</a>
4075	<a href="#">ROR FM</a>
4188	<a href="#">TILJE FM</a>
4373	<a href="#">ÅRE FM</a>

## Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CCL GR SBT VDL	3000	3780
GR ASR	1450	4378
MRCH JAR GR MAXCOR	3640	3694
MRCH JAR TTRM DSL CN ZDL ORIT HD	267	4416



MRCH JAR TTRM GR 6TC IFX RCX	3803	4358
MRCH JAR TTRM GR RCX	3808	3984
MWD - DIR PWD	265	377
MWD - DIR PWD GR RES	381	1400
MWD - DIR PWD GR RES DIR SON	1400	2290
MWD - DIR PWD GR RES SON DEN POR	2290	3797
MWD - DIR PWD GR RES TESTRAC RES	3797	4420
VSP	500	4408

### 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	377.0	36	377.0	0.00	
SURF.COND.	20	1395.0	26	1400.0	0.00	
PILOT HOLE		1400.0	9 7/8	1400.0	0.00	
INTERM.	13 3/8	2285.0	17 1/2	2290.0	0.00	
LINER	9 7/8	3788.0	12 1/4	3797.0	0.00	
OPEN HOLE		4420.0	8 1/2	4420.0	0.00	

### Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
381	1.34	15.0		Performadril	
394	1.02	1.0		Seawater	
501	1.64	28.0		HT-XP-07 Low ECD	
1223	1.34	20.0		KCI GEM Polymer	
1400	1.35	12.0		KCI GEM Polymer	
1400	1.29	12.0		KCI GEM Polymer	
2200	1.84	37.0		HT-XP-07 Low ECD	
2200	1.84	36.0		HT-XP-07 Low ECD	
2200	1.80	35.0		HT-XP-07 Low ECD	
2290	1.67	39.0		XP-07 Yellow	
3543	1.90	56.0		HT-XP-07 Low ECD	
3797	1.80	44.0		HT-XP-07 Low ECD	
3923	1.94	52.0		HT-XP-07 Low ECD	
4091	1.90	50.0		HT-XP-07 Low ECD	



**Faktasider**  
**Brønnbane / Leting**

Utskriftstidspunkt: 9.5.2024 - 14:44

4420	1.89	49.0	HT-XP-07 Low ECD	
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