



Generell informasjon

Brønnbane navn	6406/2-8
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6406/2-8 (Imsa)
Brønn navn	6406/2-8
Seismisk lokalisering	inline2310 & xline 3469 (WIN09M01)
Utvinningstillatelse	589
Boreoperatør	Wintershall Norge AS
Boretillatelse	1554-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	108
Borestart	17.01.2015
Boreslutt	05.05.2015
Frigitt dato	05.07.2016
Publiseringsdato	05.07.2016
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	TILJE FM
2. nivå med hydrokarboner, alder	LATE TRIASSIC
2. nivå med hydrokarboner, formasjon	ÅRE FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	262.0
Totalt målt dybde (MD) [m RKB]	4680.0
Totalt vertikalt dybde (TVD) [m RKB]	4680.0
Maks inklinasjon [°]	1.8
Temperatur ved bunn av brønnbanen [°C]	162
Eldste penetrerte alder	LATE TRIASSIC



Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50
NS grader	64° 45' 13.87" N
ØV grader	6° 30' 9.38" E
NS UTM [m]	7183544.40
ØV UTM [m]	381166.51
UTM sone	32
NPDID for brønnbanen	7618

Brønnhistorie

General

Well 6406/2-8 was drilled to test the Imsa prospect on the Halten Terrace in the Norwegian Sea. The primary objective was to prove commercial volumes of movable hydrocarbons in Jurassic sandstones of the Garn-, Ile- Tofte- and Tilje formations.

Operations and results

Wildcat well 6406/2-8 was spudded with the semi-submersible installation Transocean Arctic on 17 January 2015 and drilled to TD at 4680 m in Triassic sediments belonging to the Åre Formation. As much as 37 days was counted as WOW for this well (31% of the rig time). Otherwise, no significant problem was encountered in the operations. Log data quality is an issue in the 8.5" section, there is strong effects from stick & pull on the logging sensors. The well was drilled with Seawater and hi-vis pills down to 404 m, with KCl/Polymer/GEM mud from 404 m to 1610 and with XP-07 oil based mud from 1610 m to TD.

In the Lysing and Lange formations hydrocarbons (most likely gas) were found in primarily tight sandstones of poor quality. In total 4.5 m Cretaceous hydrocarbon pay was identified, consisting of several thin sandstones. Below BCU, a thin Spekk Formation rested directly on the lower part of the Tilje Formation. The Garn, Ile, and Tofte formations were eroded in the well. Light oil was found in the Tilje and Åre formations, from 4307.5 m down to the OWC at 4424.3 m. The reservoir quality in the Jurassic targets varied from medium to poor.

One core was cut with 100% recovery from 4340 to 4357.50 m. Fluid samples were taken at 4344.75 m (light oil), 4419.74 (light oil), 4430 m (water), and 4501 m (water)

The well was permanently abandoned on 5 May 2015 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1620.00	4681.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4340.0	4357.9	[m]

Total kjerneprøve lengde [m]	17.9
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
DST		4345.00	0.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
286	NORDLAND GP
286	UNDIFFERENTIATED
590	NAUST FM
1590	KAI FM
1933	HORDALAND GP
1933	BRYGGE FM
2470	ROGALAND GP
2470	TARE FM
2537	TANG FM
2597	SHETLAND GP
2597	SPRINGAR FM
2716	NISE FM
2876	KVITNOS FM
3438	CROMER KNOLL GP
3438	LYSING FM
3531	LANGE FM



4270	LYR FM
4299	VIKING GP
4299	SPEKK FM
4308	BÅT GP
4308	TILJE FM
4331	ÅRE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	3150	4100
FMP FMS	4309	4653
GR DI	200	4670
LWD-DIR GR RES ND NBGR NBRES PWD	4229	4340
LWD-DIR GR RES ND PWD	4357	4680
LWD-DIR GR RES ND SON PWD	2569	4229
LWD-DIR GR RES PWD	404	1610
LWD-DIR GR RES SON PWD	1610	2569
LWD-PWD	2569	2569
SL MR	4050	4679
SLAM ACI	4200	4670
SWC	4309	4440
VSP	1158	4668

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	401.0	36	404.0	0.00	
PILOT HOLE		857.0	12 1/4	857.0	0.00	
SURF.COND.	20	1603.0	26	1610.0	0.00	
INTERM.	13 3/8	2561.5	17 1/2	2569.0	1.74	LOT
INTERM.	9 7/8	4223.0	12 1/4	4229.0	1.96	FIT
OPEN HOLE		4680.0	8 1/2	4680.0	2.15	LOT

Boreslam



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 29.5.2024 - 12:05

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløytgrense [Pa]	Type slam	Dato, måling
404	1.31	23.0		KCL/Polymer/GEM	
667	1.33	29.0		KCL/Polymer/GEM	
857	1.29	33.0		KCL/Polymer/GEM	
1127	1.33	30.0		KCL/Polymer/GEM	
1379	1.64	33.0		XP-07 Low ECD OBM	
1466	1.33	26.0		KCL/Polymer/GEM	
1510	1.64	35.0		XP-07 Low ECD OBM	
1515	1.64	38.0		XP-07 Low ECD OBM	
1519	1.80	32.0		XP-07 Low ECD OBM	
1610	1.33	20.0		KCL/Polymer/GEM	
1613	1.54	34.0		XP07 Low ECD OBM	
2495	1.64	48.0		XP07 Low ECD OBM	
2571	1.79	44.0		XP07 Low ECD OBM	
3127	1.80	53.0		XP07 Low ECD OBM	
4130	1.99	47.0		XP-07 Low ECD OBM	
4216	1.80	40.0		XP-07 Low ECD OBM	
4320	1.87	45.0		XP-07 Low ECD OBM	
4357	1.95	48.0		XP-07 Low ECD OBM	
4680	1.96	41.0		XP-07 Low ECD OBM	