



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 13:08

Brønnbane navn	6406/12-5 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6406/12-5
Seismisk lokalisering	PGS 14005;inline 6064 & xline 5758
Utvinningstillatelse	586
Boreoperatør	VNG Norge AS
Boretillatelse	1599-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	52
Borestart	22.09.2015
Boreslutt	12.11.2015
Frigitt dato	12.11.2017
Publiseringsdato	08.03.2018
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	336.0
Totalt målt dybde (MD) [m RKB]	4297.0
Totalt vertikalt dybde (TVD) [m RKB]	3734.0
Maks inklinasjon [°]	43.6
Temperatur ved bunn av brønnbanen [°C]	130
Eldste penetrerte alder	LATE JURASSIC
Eldste penetrerte formasjon	MELKE FM
Geodetisk datum	ED50
NS grader	64° 3' 37.84" N
ØV grader	6° 50' 38.82" E
NS UTM [m]	7105712.87
ØV UTM [m]	394789.14
UTM sone	32
NPDID for brønnbanen	7787



Brønnhistorie

General

Well 6406/12-5 S was drilled to test the central part of the Boomerang prospect on the Halten Terrace in the Norwegian Sea. The primary objective was to establish the presence and volume of moveable hydrocarbons in Intra Spekk and Melk formation sandstones

Operations and results

Wildcat well 6406/12-5 S was spudded with the semi-submersible installation Transocean Arctic on 22 September 2015 and drilled to TD at 4297 m (3734 m TVD) m in the Late Jurassic Melke Formation. After drilling top hole to 433 m a 9 7/8" pilot hole was drilled to 1134 m to investigate possible shallow gas intervals in the Nordland Group. No shallow gas or over-pressured water bearing zones were observed. In the 8 1/2" section the string got stuck at 4107 m and after pulling free it was discovered that most of the bit body was lost in hole. Consequently, the hole was side-tracked from 3937 m and drilled without further significant problems to TD at 4297 m (3734 m TVD) in the Late Jurassic Melke Formation. The well was drilled with seawater and hi-vis pills down to 1225 m and with XP-07 oil-based mud from 1225 m to TD.

Top Spekk Formation was reached at 3741 m (3192.3 m TVD) and consisted of laminated mudstone overlying a thin sandstone with moderate reservoir quality resting on a 140 m thick unit of mainly silty to fine-grained sandstones with a shaly upper part. Top of the Melke Formation was reached at 3920.5 m (3347.8 m TVD) and is followed by 218 m TVD of intra Melke sandstones of moderate quality with top at 3962 m (3384.3 m TVD). Petrophysical interpretation showed that reservoir porosities in the intra Spekk and Melke sandstones were good ranging from 8 to 20 % with permeabilities of up to 1200 mD based on sidewall core analyses. The pressure data indicate communication across the Spekk and Melke Formations reservoirs with a near hydrostatic gradient. The only oil shows observed during drilling was cut fluorescence and residual fluorescent ring on cuttings in the interval 3966 to 3978 m in the uppermost part of the Intra-Melke sandstone.

No cores were cut. An MDT water sample was taken at 3965.5 m.

The well was permanently abandoned on 12 November 2017 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1230.00	4108.00

Borekaks tilgjengelig for prøvetaking?	YES
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Oljeprøver i Sokkeldirektoratet



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Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		0.00	0.00			YES
MDT		0.00	0.00	BASE OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
360	NORDLAND GP
360	NAUST FM
1075	KAI FM
1125	HORDALAND GP
1125	BRYGGE FM
1882	ROGALAND GP
1882	TARE FM
2010	TANG FM
2225	SHETLAND GP
2225	SPRINGAR FM
2336	NISE FM
2536	KVITNOS FM
3146	CROMER KNOLL GP
3146	LANGE FM
3729	LYR FM
3741	VIKING GP
3741	SPEKK FM
3744	NO FORMAL NAME
3769	SPEKK FM
3811	NO FORMAL NAME
3921	MELKE FM
3963	NO FORMAL NAME
4189	MELKE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
GR RES ECD DIR	360	432



LWD - ATBRES NBINC NBGR ECD MPR	4090	4108
LWD - ATBRES NBINC NBGR TT ECD M	3625	4090
LWD - ATK ZTKR ZTKG COP OTKII SD	2264	3625
LWD - GR RES PWD DIR	360	1225
LWD - GR RES PWD SON DIR	1225	2264
T2 GR DSL CN ZDL	3616	4296
T2 GR GX PL ORIT UXPL	3616	4288
T2 GR XMAC HDIL ORIT	360	4294
T2 LWD - NGRES NBGR ECD MPR DEN	3937	4297
T2 PCOR SWC	3745	4287
T2 PCX PRES SAMP	3745	4275
T2 VSP BHS	927	4287

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	428.0	36	432.5	0.00	
PILOT HOLE		1134.0	9 7/8	1134.0	0.00	
SURF.COND.	20	1219.0	26	1225.0	0.00	
		1228.0		1228.0	1.64	FIT
INTERM.	13 3/8	2256.0	17 1/2	2264.0	0.00	
		2267.0		2267.0	1.87	FIT
INTERM.	9 5/8	3617.0	12 1/4	3625.0	0.00	
		3628.0		3628.0	1.91	LOT
OPEN HOLE		4297.0	8 1/2	4297.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
432	1.34	21.0		KCL/POLYMER/GEM	
600	1.01	40.0		Sweeps	
1100	1.34	21.0		KCL/POLYMER/GEM	
1225	1.49	32.0		XP-07 low ECD	
1225	1.34	21.0		KCL/POLYMER/GEM	



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1680	1.51	33.0		XP-07 low ECD	
1924	1.54	34.0		XP-07 low ECD	
2430	1.54	45.0		XP-07 low ECD	
3031	1.54	38.0		XP-07 low ECD	
3625	1.54	32.0		XP-07 low ECD	
4005	1.54	37.0		XP-07 low ECD	
4297	1.54	41.0		XP-07 low ECD	