



Generell informasjon

Brønnbane navn	6705/7-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6705/7-1
Seismisk lokalisering	Inline 2460 and crossline 1986 on ST0410
Utvinningstillatelse	705
Boreoperatør	Repsol Norge AS
Boretillatelse	1654-L
Boreinnretning	TRANSOCEAN SPITSBERGEN
Boredager	25
Borestart	06.04.2017
Boreslutt	01.05.2017
Plugget og forlatt dato	01.05.2017
Frigitt dato	07.08.2018
Publiseringsdato	01.05.2019
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	1404.0
Totalt målt dybde (MD) [m RKB]	3290.0
Totalt vertikalt dybde (TVD) [m RKB]	3289.0
Maks inklinasjon [°]	5.5
Temperatur ved bunn av brønnbanen [°C]	97
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	LYSING FM
Geodetisk datum	ED50
NS grader	67° 15' 5.14" N
ØV grader	5° 10' 29.12" E
NS UTM [m]	7461243.49
ØV UTM [m]	593833.45



UTM sone	31
NPDID for brønnbanen	8133

Brønnhistorie

General

Well 6705/7-1 was drilled in deep water in the northern part of the Fenris Graben in the Norwegian Sea. The well location is approximately 80 km to the northwest of the Aasta Hansteen field. The objective was to test Late Cretaceous sands prognosed to belong to the Nise Formation, which are the main reservoirs in the Aasta Hansteen discoveries.

Operations and results

A 9 7/8" pilot hole was drilled to 2372 m, through the ooze and into formations with sufficient fracture gradient to support setting of the 13 3/8" casing shoe. No shallow gas or shallow water flow indications were observed while drilling the pilot. After this, the rig was moved 50 m towards north-east where a Conductor Anchor Can was pre-laid to stabilize the conductor while drilling the exploration well.

Wildcat well 6705/7-1 was spudded with the semi-submersible installation Transocean Spitsbergen on 6 April 2017 and drilled to TD at 3290 m in the Late Cretaceous (Late Turonian – Early Coniacian) Lysing Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis sweeps down to 2323 m and with KCL/NaCl/GEM/Polymer water-based mud from 2323 m to TD.

Post-drill biostratigraphy suggested a different lithostratigraphy than prognosed. The actual result from the well is that the well penetrated Nise Formation sandstones from 2729 to 2775 m, intra-Kvitnos Formation sandstones from 2896 to 3102 m, and Lysing sandstones from 3196 m to TD. The prognosed target Nise Formation corresponded to the actual intra-Kvitnos Formation sandstones.

No shows were observed on cuttings and no increase above background levels of gas were observed during the entire drilling operation. No hydrocarbons have been interpreted from wireline data.

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 1 May 2017 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2330.00	3291.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
1444	NORDLAND GP
1444	NAUST FM
1625	KAI FM
2232	HORDALAND GP
2232	BRYGGE FM
2511	ROGALAND GP
2548	TARE FM
2648	TANG FM
2729	SHETLAND GP
2729	NISE FM
2775	KVITNOS FM
3196	CROMER KNOLL GP
3196	LYSING FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSL FTEX ORIT XMAC	2750	3279
LWD - GR PWD RES DI DT CAL DEN N	2323	2829
LWD - GR RES APWD DEN NEU DI UCA	2829	3290
LWD - GR RES PWD DI	1484	2323
LWD - SON DEN NEU	1450	2372
VSP	2220	3260

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	1483.9	36	1483.9	0.00	
INTERM.	13 3/8	2316.7	17 1/2	2323.0	1.22	LOT
PILOT HOLE		2372.0	9 7/8	2372.0	0.00	
INTERM.	9 5/8	2823.1	12 1/4	2829.0	1.37	LOT
OPEN HOLE		3290.0	8 1/2	3290.0	0.00	



Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1460	1.30	0.1		Water	
1460	1.08	0.2		Water	
2323	1.30	0.2		Water	
2323	1.08	0.2		Water	
2823	1.15			Water	
2829	1.12			Water	
2854	1.20			Water	
3075	1.20			Water	
3290	1.22			Water	
3290	1.20			Water	