



Generell informasjon

Brønnbane navn	6707/10-2 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	AASTA HANSTEEN
Funn	6707/10-2 S
Brønn navn	6707/10-2
Seismisk lokalisering	BPN9601STR07-inline 1735 & x-line 2326
Utvinningstillatelse	218
Boreoperatør	StatoilHydro ASA
Boretillatelse	1194-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	44
Borestart	31.08.2008
Boreslutt	13.10.2008
Frigitt dato	13.10.2010
Publiseringsdato	13.10.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	NISE FM
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	1248.0
Totalt målt dybde (MD) [m RKB]	3365.0
Totalt vertikalt dybde (TVD) [m RKB]	3356.0
Maks inklinasjon [°]	11
Temperatur ved bunn av brønnbanen [°C]	86
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	NISE FM
Geodetisk datum	ED50



NS grader	67° 2' 48.8" N
ØV grader	7° 3' 38.3" E
NS UTM [m]	7438113.36
ØV UTM [m]	415608.90
UTM sone	32
NPDID for brønnbanen	5918

Brønnhistorie

General

The 6707/10-2 S Haklang well was drilled ca 3.5 km south-east of the 6707/10-1 Luva Discovery on the Nyk High in the Northern Norwegian Sea. The objective of the Haklang well was to prove hydrocarbons in the ?Nise 1 sandstone?. After completion of this well bore a sidetrack well, 6707/10-2 A Haklang West flank, was planned to prove hydrocarbons in the ?Nise 2 sandstone?.

Operations and results

Wildcat well 6707/10-2 S was spudded in 1247.5 m water depth with the semi-submersible installation Transocean Leader on 31 August 2008 and drilled to TD at 3365 m in the Late Cretaceous Nise Formation. No pilot hole was drilled. Neither shallow gas nor shallow water flow was observed. The BOP and riser was run three times before it landed and tested successfully. In the two first attempts leaks were identified that required replacements. Otherwise no significant technical problems were encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 2010 m and with Glydril mud from 2010 m to TD.

The top of the reservoir was picked at 3150.5 m (3146.5 m TVD RKB). The reservoir showed good properties (Net/Gross: 0.73, porosity 0.25) and contained dry gas. The gas-water contact was defined at 3281.1 m (3274.6 m TVD RKB), giving a gas column of 128 m. Variable oil shows, as proven by cut and weakly coloured fluorescence (light hydrocarbons), were observed on the cores from the gas-bearing reservoir section, otherwise no shows were recorded in the well.

A total of 142.6 m core was recovered in 8 cores from the interval 3158 to 3308 m in the Nise Formation reservoir. One MDT run for pressure points and fluid sampling was performed in the well. Fluid samples were obtained at 3165.6 m MD/3161.3 m TVD and 3282.9 m MD/3276.3 m TVD. Gas was the movable fluid on both sampling depths.

The well was plugged back and prepared for sidetracking on 13 October 2010. It is a gas discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2020.00	3365.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3158.0	3176.4	[m]
2	3177.0	3194.0	[m]
3	3195.2	3213.9	[m]
4	3214.0	3231.8	[m]
5	3232.0	3247.3	[m]
6	3246.0	3263.9	[m]
7	3264.0	3281.0	[m]
8	3282.0	3306.2	[m]

Total kjerneprøve lengde [m]	146.1
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
1271	NORDLAND GP
1271	NAUST FM
2068	KAI FM
2096	HORDALAND GP
2096	BRYGGE FM
2189	ROGALAND GP
2189	TARE FM
2224	TANG FM
2294	SHETLAND GP
2294	SPRINGAR FM
3127	NISE FM



Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI HNGS ACTS ECRD	3090	3365
MDT	3135	3344
MSIP CMR EDTC ACTS ECRD	2840	3365
MWD - ARCVRES6 POWERPULSE	3100	3365
MWD - ARCVRES9 POWERPULSE	1360	3100
PEX HRLA ECS EDTC ACTS ECRD	3090	3365

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	1360.0	36	1363.0	0.00	LOT
SURF.COND.	20	2000.0	26	2010.0	1.39	LOT
INTERM.	9 5/8	3090.0	12 1/4	3100.0	1.54	LOT
INTERM.	9 5/8	3100.0	12 1/4	0.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1363	1.35	19.0		Spud Mud	
2010	1.35	15.0		Glydril	
2136	1.14	9.0		Glydril	
2253	1.15	10.0		Glydril	
2450	1.16	10.0		Glydril	
2525	1.16	11.0		Glydril	
2687	1.15	11.0		Glydril	
2810	1.15	12.0		Glydril	
2950	1.16	12.0		Glydril	
3030	1.15	13.0		Glydril	
3052	1.17	14.0		Versatec	
3098	1.16	14.0		Versatec	
3100	1.15	13.0		Glydril	
3103	1.16	16.0		Glydril DW #36	
3158	1.20	16.0		Glydril DW #36	



3195	1.20	16.0		Glydril DW #36	
3195	1.20	16.0		Glydril DW #36	
3213	1.23	15.0		Glydril DW #36	
3231	1.23	15.0		Glydril DW #36	
3282	1.24	16.0		Glydril DW #36	
3308	1.25	16.0		Glydril DW #36	
3365	1.25	15.0		Glydril DW #36	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
5918 Formation pressure (Formasjonstrykk)	PDF	0.28

