



Generell informasjon

Brønnbane navn	6706/12-1
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	6706/12-1
Brønn navn	6706/12-1
Seismisk lokalisering	BPN9601STR07-inline:2392 & crossline 2341
Utvinningstillatelse	218
Boreoperatør	StatoilHydro ASA
Boretillatelse	1189-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	48
Borestart	12.07.2008
Boreslutt	28.08.2008
Frigitt dato	28.08.2010
Publiseringsdato	28.08.2010
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]	1262.0
Totalt målt dybde (MD) [m RKB]	3950.0
Totalt vertikalt dybde (TVD) [m RKB]	3949.0
Temperatur ved bunn av brønnbanen [°C]	91
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	KVITNOS FM
Geodetisk datum	ED50



NS grader	67° 2' 43.3" N
ØV grader	6° 52' 37.6" E
NS UTM [m]	7438203.84
ØV UTM [m]	407619.33
UTM sone	32
NPDID for brønnbanen	5867

Brønnhistorie

General

Well 6706/12-1 was drilled in 1262 m water depth on the Nyk High in the Norwegian Sea. The primary objective was to prove presence of hydrocarbons in the Snefrid South prospect within the Nise 1 Formation and confirm reservoir quality and production properties as input to DG1 for the Luva field development. Sandstones within the Campanian Upper Nise 1 Formation were primary target and lower Nise 1 in addition to Nise 2 Formation was the secondary target.

Operations and results

Wildcat well 6706/12-1 was spudded with the semi-submersible installation Transocean Leader on 12 July 2008 and drilled to TD at 3950 m in the Late Cretaceous Kvitnos Formation. A 12 1/4" pilot hole was drilled to 2034 m, primarily for data acquisition purposes, but also to check for shallow water flow. Operations proceeded without significant problems, although some tight spots were experienced at 2034 m and in 8 1/2" section interval from 3408 to 3186 m. No shallow gas or shallow water flow was observed by the ROV at the wellhead or on the MWD logs while drilling the well. The well was drilled with seawater/spud mud/Glydril down to 2034 m, and with Ultradril mud containing 18-20% monoethylene glycol (MEG) from 2034 m to TD.

The well penetrated rocks of Quaternary, Tertiary, and late Cretaceous age. The well penetrated the Nise reservoir sand section at 2625 m, which was 13 m shallower than prognosed. The secondary target, Kvitnos Formation (Biostratigraphic dates proved the pre-drill "Nise 2" to be the Kvitnos Formation) was penetrated at 3516.5 m, which was 30.5 m shallower than prognosed. Dry gas was proven in the Nise Formation with 70 m of good quality reservoir. The gas - water contact was found at 2695 m, with a net to gross ratio of 77%, total porosity of 29% and Hydrocarbon saturation of 80%. The Kvitnos Formation was dry and with limited reservoir quality. No oil shows were recorded in the well.

Five cores of 18 m each were cut in the Nise reservoir from 2628 to 2714.5 m, with good recovery. One core of 27 m length was successfully cut in the Kvitnos Formation. Wire line samples were taken at 2625.6 m (gas) and at 2701.4 m (water) in the Nise Formation. The gas samples were taken with a very low pressure draw-down, and were expected to be of good quality.

The well was permanently abandoned on 28 August 2008 as a gas discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2040.00	3950.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2628.0	2645.0	[m]
2	2646.0	2664.0	[m]
3	2664.0	2682.2	[m]
4	2682.2	2699.8	[m]
5	2700.0	2713.3	[m]
6	3534.0	3560.9	[m]

Total kjerneprøve lengde [m]	111.0
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
1286	NORDLAND GP
1286	NAUST FM
2119	KAI FM
2213	HORDALAND GP
2213	BRYGGE FM
2368	ROGALAND GP
2368	TARE FM
2427	SHETLAND GP
2427	SPRINGAR FM
2590	NISE FM
3517	KVITNOS FM

Spleisede logger





Dokument navn	Dokument format	Dokument størrelse [KB]
5867	pdf	0.60

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
5867_01_6706_12_1_gch_transfer_1	txt	0.00
5867_02_6706_12_1_gch_results_1	txt	0.12

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR GR	2620	2710
FMI DSI GR	2542	3945
MDT GR	2625	3915
MWD - ARCVRES6 TELE	2570	3950
MWD - ARCVRES8 GVR8 PP	2037	2580
MWD - ARCVRES8 VADN8 VSON8 PP	1379	2034
MWD - ARCVRES9 PP	1379	2034
MWD - PP	1285	1379
PEX HRLA DSI	2024	2567
PEX HRLA ECS HNGS EDTC	2385	3945
VSP GR	2010	3900

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	1376.0	36	1379.0	0.00	LOT
SURF.COND.	20	2024.0	26	2034.0	1.39	LOT
PILOT HOLE		2034.0	12 1/4	2034.0	0.00	LOT
INTERM.	9 5/8	2572.0	12 1/4	2583.0	1.44	LOT
OPEN HOLE		3950.0	8 1/2	3950.0	0.00	LOT

Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløytetegnelse [Pa]	Type slam	Dato, måling
1379	1.03			spud mud	
2034	1.03			spud mud	
2583	1.18			Ultradril	
3950	1.23			Ultradril	

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]
5867 Formation pressure (Formasjonstrykk)	pdf	0.28

