



Generell informasjon

Brønnbane navn	6707/10-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	AASTA HANSTEEN
Funn	6707/10-1 Aasta Hansteen
Brønn navn	6707/10-1
Seismisk lokalisering	BPN-0196- INLINE 930& CROSSLINE 2130
Utvinningstillatelse	218
Boreoperatør	BP Norway Limited U.A.
Boretillatelse	885-L
Boreinnretning	OCEAN ALLIANCE
Boredager	96
Borestart	19.04.1997
Boreslutt	23.07.1997
Frigitt dato	23.07.1999
Publiseringsdato	15.11.2001
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	DELFIN FM (INFORMAL)
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	1274.0
Totalt målt dybde (MD) [m RKB]	5039.0
Totalt vertikalt dybde (TVD) [m RKB]	5026.5
Maks inklinasjon [°]	11.2
Temperatur ved bunn av brønnbanen [°C]	114
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	KVITNOS FM
Geodetisk datum	ED50
NS grader	67° 4' 7.85" N



ØV grader	7° 0' 36.51" E
NS UTM [m]	7440629.70
ØV UTM [m]	413490.42
UTM sone	32
NPDID for brønnbanen	3075

Brønnhistorie

General

Well 6707/10-1 was the first well drilled in PL218 and the first in the Vøring Basin deepwater area. The well targeted a tilted fault block on the Nyk High comprising Late Cretaceous sandstones with a pronounced flat spot. The main objectives of the well were to establish the presence, quality, and fluid content of the Campanian age Nise Formation. The underlying Santonian age Lysing Formation provided a secondary target.

Operations and results

Wildcat well 6707/10-1 was spudded with the semi-submersible installation "Ocean Alliance" on 19 April 1997 and drilled to TD at 5039 m in Late Cretaceous sediments of the Kvitnos Formation. The well was drilled water based with "BARASILC" silicate mud with KCl and GEM GP (glycols) from 2240 m to 2890 m and with KCl/NaCl/GEM GP/Polymer mud from 2890 m to TD. Top Nise Formation was penetrated at 2957 m, 1 m deeper than the revised depth prognosis based on an intermediate VSP run. The reservoir was recognized by an abrupt decrease in LWD gamma combined with increased gas levels and the appearance of sand in the cuttings. Wire line logging and sampling confirmed a gas column from 2957.5 to 3113.5 m. A total of nine cores were cut over the interval 2967 - 3145 m with a total recovery of 171 m (96 %). Poor shows were recorded in cores throughout this reservoir section, down to the base of core 9, where moderate shows were seen in the interval 3140 - 3145 mBRT. One 27 m core (core 10) was cut in the secondary target (4118 - 4145 mBRT). This core had fair shows at the top. No shows were seen in the drilled cuttings. Altogether 10 MDT fluid samples were taken in the Nise Formation. Seven of these were taken from 2964 to 3086 m RKB in the reservoir zone, two samples were from 3114.5 m just below the gas-water contact, and one from further down at 3195 m. The MDT samples were contaminated with mud, but PVT flash to stock tank conditions gave a consistent gas gravity of 0.59 relative to air and a GOR in excess of 117000 m3/m3. The well was plugged and abandoned as a gas discovery with oil shows.

Testing

No DST was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2230.00	5039.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2967.0	2986.0	[m]
2	2985.4	3011.8	[m]
3	3012.5	3026.7	[m]
4	3030.0	3047.5	[m]
5	3048.5	3065.4	[m]
6	3066.0	3083.5	[m]
7	3085.0	3107.2	[m]
8	3107.0	3127.6	[m]
9	3127.6	3146.6	[m]
10	4118.0	4138.2	[m]

Total kjerneprøve lengde [m]	193.6
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2967-2972m



2972-2977m



2977-2982m



2982-2986m



2985-2990m



2990-2995m



2995-3000m



3000-3005m



3005-3010m



3010-3012m



3012-3017m



3017-3022m



3022-3027m



3030-3035m



3035-3040m



3040-3045m



3045-3048m



3048-3053m



3053-3058m



3058-3063m



3063-3065m



3066-3071m



3071-3076m



3076-3081m



3081-3083m



3085-3090m



3090-3095m



3095-3100m



3100-3105m



3105-3107m



3107-3112m



3112-3117m



3117-3122m



3122-3127m



3127-3128m



3127-3132m



3132-3137m



3137-3142m



3142-3147m



4118-4123m



4123-4128m



4128-4133m



4133-4138m



4138-4138m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2230.0	[m]	DC	DONG
2370.0	[m]	DC	DONG
2390.0	[m]	DC	DONG
2410.0	[m]	DC	DONG
2967.2	[m]	C	OD
2967.5	[m]	C	OD
2969.2	[m]	C	OD
2970.3	[m]	C	OD
2971.9	[m]	C	OD
2972.8	[m]	C	OD
2974.5	[m]	C	OD
2976.4	[m]	C	OD
2978.7	[m]	C	OD
2982.0	[m]	C	OD
2983.8	[m]	C	OD
2986.6	[m]	C	OD
2989.3	[m]	C	OD
2991.6	[m]	C	OD
2993.6	[m]	C	OD
2995.9	[m]	C	OD
2998.7	[m]	C	OD
3001.9	[m]	C	OD
3002.7	[m]	C	OD
3003.6	[m]	C	OD
3008.9	[m]	C	OD
3010.0	[m]	C	OD
3010.9	[m]	C	OD
3016.9	[m]	C	OD
3018.8	[m]	C	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 18.5.2024 - 18:01

3021.8	[m]	C	OD
3032.3	[m]	C	OD
3035.6	[m]	C	OD
3037.8	[m]	C	OD
3040.7	[m]	C	OD
3043.7	[m]	C	OD
3047.1	[m]	C	OD
3049.8	[m]	C	OD
3051.9	[m]	C	OD
3053.7	[m]	C	OD
3056.2	[m]	C	OD
3060.0	[m]	C	OD
3060.4	[m]	C	OD
3064.9	[m]	C	OD
3068.9	[m]	C	OD
3070.1	[m]	C	OD
3073.7	[m]	C	OD
3077.1	[m]	C	OD
3079.1	[m]	C	OD
3092.9	[m]	C	OD
3099.4	[m]	C	OD
3100.9	[m]	C	OD
3104.5	[m]	C	OD
3112.9	[m]	C	OD
3122.2	[m]	C	OD
3130.7	[m]	C	OD
3145.5	[m]	C	OD
4119.5	[m]	C	OD
4119.5	[m]	C	OD
4126.7	[m]	C	OD
4137.0	[m]	C	OD
4138.2	[m]	C	OD
4147.0	[m]	DC	OD
4252.0	[m]	DC	OD
4300.0	[m]	DC	OD
4402.0	[m]	DC	OD
4501.0	[m]	DC	OD
4597.0	[m]	DC	OD
4651.0	[m]	DC	OD
4720.0	[m]	DC	OD



4801.0	[m]	DC	OD
4900.0	[m]	DC	OD
4993.0	[m]	DC	OD
5029.0	[m]	DC	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
1299	NORDLAND GP
2142	ROGALAND GP
2142	TARE FM
2200	TANG FM
2448	SHETLAND GP
2448	SPRINGAR FM
2898	NISE FM
2977	DELFIN FM (INFORMAL)
3810	NISE FM
3939	DELFIN FM (INFORMAL)
4241	KVITNOS FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3075	pdf	0.74

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
3075_1	pdf	1.73
3075_2	pdf	1.90

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3075_6707_10_1_COMPLETION_LOG	pdf	4.13





3075 6707 10 1 COMPLETION REPORT DRI LLING	pdf	73.87
3075 6707 10 1 COMPLETION REPORT GE OLOGY	pdf	22.33

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CSI GR	3650	5000
CST GR	2210	2447
CST GR	3882	5027
DIR FE	3145	5039
DIR GR PWD	2204	2967
DST DSI IPL SP AMS	1275	2887
FMS AMS HNGS	2886	3858
MDT GR AMS	2955	2965
MDT GR AMS	2960	3145
MDT GR AMS	3109	3820
PEX HALS DSI AMS SP	2886	3861
PEX HALS DSI SP ACTS	3860	5030
RFT CBL VDL GR AMS	2400	4233
RFT HP GR AMS	2232	2412
RLL FE	3048	3145
VSP GR	1300	2735
VSP GR AMS	2560	3845

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	1371.0	36	1376.3	0.00	LOT
SURF.COND.	20	2202.7	26	2207.0	1.37	LOT
INTERM.	13 3/8	2890.7	17 1/2	2896.0	1.49	LOT
INTERM.	9 5/8	3865.2	12 1/4	3871.0	1.70	LOT
OPEN HOLE		5039.0	8 1/2	5039.0	0.00	LOT

Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
1299	0.00			seawater/be	
1376	1.04			Seawater/be	
2207	1.04	17.0	11.0	Seawater/be	
2896	1.26	12.0	18.0	Barasilc	
3871	1.28	23.0	24.0	Nacl/Kcl/Ge	
5039	1.26	20.0	19.0	Nacl/Kcl/Ge	

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]
3075 Formation pressure (Formasjonstrykk)	pdf	0.24

