



Generell informasjon





Brønnbane navn	6704/12-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6704/12-1
Seismisk lokalisering	INLINE 11725& X-LINE 7975
Utvinningstillatelse	215
Boreoperatør	Saga Petroleum ASA
Boretillatelse	956-L
Boreinnretning	SCARABEO 5
Boredager	51
Borestart	04.06.1999
Boreslutt	24.07.1999
Frigitt dato	24.07.2001
Publiseringsdato	15.11.2001
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	1352.0
Totalt målt dybde (MD) [m RKB]	4103.0
Totalt vertikalt dybde (TVD) [m RKB]	4094.0
Maks inklinasjon [°]	11
Temperatur ved bunn av brønnbanen [°C]	142
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	NISE FM
Geodetisk datum	ED50
NS grader	67° 7' 25" N
ØV grader	4° 42' 44.7" E
NS UTM [m]	7446374.14
ØV UTM [m]	574282.36
UTM sone	31
NPDID for brønnbanen	3759



Brønnhistorie

General

The well is located on the Gjallar Ridge, on a local horst within a major top Cretaceous four-way dip closure. The main purpose of well 6704/12-1 was to test the petroleum potential of the Upper Cretaceous section. In addition to the primary objective, the well was designed to test the petroleum potential of the possible sandy Eocene section above the main target

Operations and results

Wildcat well 6704/12-1 was spudded with the semi-submersible installation "Scarabeo 5" in 1352 m water depth on 4 June 1999 and drilled to TD at 4103 m in the late Cretaceous Nise Formation. Due to problems with the positioning system the well was spudded a little over 108 m to the Northeast off the planned spud point, and a correction run was necessary to correct the well path. The well was initially planned as a vertical well, but was consequently built to 11 deg. in top Cretaceous and dropped to 5 deg. towards TD. The well was drilled water based with seawater and bentonite down to 2167 m and AQUA-DRILL mud with Glycol additives (AQUA-COL) from 2167 m to TD. The 12 1/4 pilot hole from seabed to 2126 m was drilled with a full suite MWD plus sonic to detect water or gas flows, and give information on silicate ooze sediment formations and establish setting depth for the 20" casing. The much debated ooze section proved to be about 640 m thick and was drilled without problems. Only thin sand stringers were present in the top of the Eocene-50 section. The Early Tertiary section consists of siltstones and shaly-silty dirty sandstones. The reservoir quality of the Latest Campanian sandstones below the top Cretaceous unconformity was excellent. Two thin intrusions were present at approx. 3500 m RKB. One core was cut across the Tertiary-Cretaceous boundary from 2554 to 2575 m, a second from 2997 to 3006 m in the Springar Formation and a third from 4097 to 4103 (TD) in the Nise Formation. A number of MDT samples from 3842.6 were all highly contaminated with mud. The well was permanently plugged and abandoned as a dry hole on 24 July 1999.

Testing

No DST was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
2170.00	4092.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2554.0	2574.7	[m]



2	2997.0	3005.4	[m]
3	4097.0	4103.0	[m]

Total kjerneprøve lengde [m]	35.1
Kjerner tilgjengelig for prøvetaking?	NO

Kjernebilder



2554-2559m



2559-2564m



2564-2569m



2569-2574m



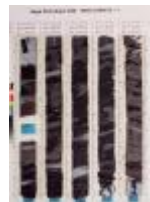
2574-2575m



2997-3002m



3002-3005m



4097-4102m



4102-4103m

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2430.0	[m]	SWC	RRI
2455.0	[m]	SWC	RRI
2477.2	[m]	SWC	RRI
2537.0	[m]	SWC	RRI
2554.8	[m]	C	RRI
2556.2	[m]	C	RRI
2558.1	[m]	C	RRI
2573.7	[m]	C	RRI
2582.0	[m]	SWC	RRI
2611.0	[m]	SWC	RRI
2638.0	[m]	SWC	RRI
2685.3	[m]	SWC	RRI
2729.0	[m]	SWC	RRI
2798.0	[m]	SWC	RRI



3003.9	[m]	C	RRI
3106.5	[m]	SWC	RRI
3150.5	[m]	SWC	RRI
3310.5	[m]	SWC	RRI
3351.5	[m]	SWC	RRI
3445.5	[m]	SWC	RRI
3471.0	[m]	SWC	RRI
3512.5	[m]	SWC	RRI
3542.5	[m]	SWC	RRI
3598.6	[m]	SWC	RRI
3698.0	[m]	SWC	RRI
3740.0	[m]	SWC	RRI
3755.5	[m]	SWC	RRI
3852.5	[m]	SWC	RRI
3904.0	[m]	SWC	RRI
3991.5	[m]	SWC	RRI
4020.0	[m]	SWC	RRI
4097.3	[m]	C	RRI
4101.2	[m]	C	RRI
4102.7	[m]	C	RRI

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
1377	NORDLAND GP
1377	NAUST FM
1459	KAI FM
1920	HORDALAND GP
1920	BRYGGE FM
2548	ROGALAND GP
2548	TANG FM
2558	SHETLAND GP
2558	SPRINGAR FM
3244	NISE FM
3644	DELFIN FM (INFORMAL)
3910	NISE FM

Spleisede logger





Dokument navn	Dokument format	Dokument størrelse [KB]
3759	pdf	0.52

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
3759_1	pdf	1.93
3759_2	pdf	1.88
3759_3	pdf	1.91
3759_4	pdf	0.85

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
3759_01_Investigation_6704-12-GB1	pdf	8.41

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3759_6704_12_1_COMPLETION_REPORT	.pdf	41.68

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CLSS	1377	4097
CMR SP	2853	4096
DCP	1476	2166
DCP MPR	2167	2384
DCP MPR	2855	4090
DCP NAV	2384	2855
DCP TC MPR	1377	2162
FMI CMR	2853	4096
HALS PEX DSI GPIT HN	2125	2851





HALS PEX DSI HNGS GP	2257	4096
MDT	2878	3843
MDT GR	2878	3961
MPR	4090	4097
MSCT	2410	2798
MSCT	3311	4087
MSCT GR	2937	4057
VSP	1900	3490
VSP	2970	4040

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	1476.0	36	1476.0	0.00	LOT
SURF.COND.	20	2162.0	26	2167.0	1.17	LOT
INTERM.	13 3/8	2379.0	17	2384.0	1.26	LOT
INTERM.	9 5/8	2854.0	12 1/4	2855.0	1.40	LOT
OPEN HOLE		4103.0	8 1/2	4103.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1705	1.08			spud mud	
2384	1.11	11.0		kcl mud	
2392	1.17	16.0		nacl	
4103	1.23	17.0		nacl satura	

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]
3759 Formation pressure (Formasjonstrykk)	pdf	0.29

