Generell informasjon

Brønnbane navn	6608/11-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6608/11-3
Seismisk lokalisering	ST01M01 inline 3314 & crossline 12738
Utvinningstillatelse	128
Boreoperatør	Statoil ASA (old)
Boretillatelse	1044-L
Boreinnretning	STENA DON
Boredager	20
Borestart	26.11.2002
Boreslutt	15.12.2002
Frigitt dato	15.12.2004
Publiseringsdato	11.02.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	374.0
Totalt målt dybde (MD) [m RKB]	2031.0
Totalt vertikalt dybde (TVD) [m RKB]	2031.0
Maks inklinasjon [°]	1.4
Temperatur ved bunn av brønnbanen [°C]	72
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	GREY BEDS (INFORMAL)
Geodetisk datum	ED50
NS grader	66° 6' 34.01'' N
ØV grader	8° 29' 48.87'' E
NS UTM [m]	7332386.68
ØV UTM [m]	477263.33
UTM sone	32
NPDID for brønnbanen	4630

Brønnhistorie

General

Well 6608/11-3 is located on the Dønna Terrace in the central part of block 6608/11. The main objective was to prove hydrocarbons in the Lower Jurassic sandstones of the Åre Formation; the secondary objectives were to prove hydrocarbons in the Upper Jurassic sandstones of the Melke Formation and to gain geological data from the Triassic Grey Beds Formation.

Operations and results

Well 6608/11-3 was spudded with the semi-submersible installation Stena Don on 26 November 2002 and drilled to TD at 2031 m in the Triassic Grey Beds. No significant problems were encountered during drilling. The well was drilled with seawater and h-vis sweeps down to 725 m and with KCl/PAC/glycol mud (GLYDRIL) from 725 m to TD. A class 2 shallow gas warning was issued prior to drilling the well, and the well was thus designed accordingly with the BOP set above the potential gas sands. No indications of shallow gas were seen on the MWD logs or in the gas/cuttings in this section. High pump rates resulted in non-representative cuttings samples due to heavy clay washout of the formation. This was particularly true for the Melke and Grey Beds Formations.

Reservoir zones were penetrated in the Melke, Tilje and Åre Formations, all of which proved to be water bearing. Good quality reservoir sands were also penetrated in the Triassic Grey Beds Formation. These were also water bearing. No shows were recorded in the well. Geochemical analyses of picked cuttings and SWCs indicated fair source potential in the Tare and Melke Formations, and good source potential in the Åre and Grey Beds Formations. The Late Jurassic Spekk Formation was not present in the well. Thermal maturity of the source rocks was evaluated using vitrinite reflectance and Tmax data. The entire section was found thermally immature. Only one sample from the Tare Formation (1420 m) had traces of hydrocarbons, mainly light hydrocarbons in the C14-C20 range.

One core (6.12 m recovered) was taken in the interval 1985 m to 1995 m in the Triassic Grey Beds Formation. Wire line logs showed a possible thin gas bearing sand (1416.5 m to 1419 m) in the Paleocene Tare Formation. A rush mobilization of MDT sampling equipment was done, with conventional sampling chambers. The sampling string included a 1-gallon and a 2 3/4-gallon chamber but the available equipment did probably not provide representative samples. Both chambers contained mud filtrate, water, and small amounts of dry gas. A total of 25 MDT pressure tests were acquired in the Tare, Melke, Åre, and Grey Beds Formations. The tests showed that the Tare Formation was weakly overpressured and not in communication with the underlying Jurassic sandstones.

The well was permanently abandoned as dry on 15 December 2002.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
740.00	2031.00

Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1985.0	1991.1	[m]

Total kjerneprøve lengde [m]	6.1
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder


1985-1989m


1989-1991m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
398	NORDLAND GP
398	NAUST FM
1240	KAI FM
1297	HORDALAND GP
1297	BRYGGE FM
1363	ROGALAND GP
1363	TARE FM
1429	TANG FM
1444	VIKING GP
1444	MELKE FM
1477	FANGST GP
1477	NOT FM
1509	ILE FM

1517	BÅT GP
1517	TILJE FM
1530	ÅRE FM
1940	GREY BEDS (INFORMAL)

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4630_1	pdf	2.18

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4630_6608_11_3_COMPLETION_LOG	.PDF	1.79
4630_6608_11_3_COMPLETION_REPORT	.pdf	3.60

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CST GR	1309	1955
MDT	1399	1419
MDT PRETESTS	1416	1985
MWD LWD - MPR LITE	458	730
MWD LWD - MPR PWD	730	1985
PEX DSI FMI GR	725	2031
VSP GR	400	2010

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	457.0	36	460.0	0.00	LOT
SURF.COND.	13 3/8	725.0	17 1/2	730.0	1.34	LOT
OPEN HOLE		2031.0	12 1/4	2031.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
404	1.07			SW / BENTONITE 1	
460	1.15			SW / BENTONITE 1	
1400	1.20	13.0		GLYDRIL 18	
1417	1.22	14.0		GLYDRIL 18	
1418	1.22	14.0		GLYDRIL 18	

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]
4630_Formation_pressure_(Formasjonstrykk)	pdf	0.22